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HORTICULTURAL ABSTRACTS

CONTENTS

ABSTRACTS

GENERAL ASPECTS OF RESEARCH AND IT	S										1	Pages
APPLICATION New periodicals	aud		127	113	255	-	407	469	549	639	713	803
Books	17	67	105	173	MAL	337	FR	469	549	639	713	803
Yearbooks	17	area.	105	173	255 255	337 337	407	_	_	639	714	35
Annual reports	17	67	106		255	337	-		- B	640	714	803
Horticulture in various countries Experimental techniques and apparatus	17	67	106	174	255	337	407	469	549 549	640	714	803
Breeding and selection	-	-	106	174	256	-	-	-	-	-	715	804
Propagation	18	67	106 106	174	256	338	408	469	549	640	715	804
Climate	18	0 /	107	174	256	338	408	470	550	640	IN TAKE	804
Greenhouses	18	68	107	174	256	338	408	470	550	641	715	804
Crop protection	18 18	68	107	175	256 257	338	408	470 470	550	641	715	805
Morphology	18	084	216-	175	7 000		-	_	_	-30	on lead	_
Physiology and biochemistry Reproduction	18	174	107	176	257	339	498	471	550 551	641	716	805
Field equipment		2000		-	257	340	_		25-0		11=0	
Handling and storage	18	151	108	176	1100	340	409	471	551 551	- 3	716	805
Quality		-	108	U !	257	340	409	4/1	551	_	- 10	36
TEMPERATE TREE FRUITS AND NUTS General												
Miscellaneous	19	68	108	176	258	340	409	471	551	641	716	806
Selection and varieties	-		-		-	341	409		552		mieur	807
Propagation and planting Climate	19 -19	_	109	176	258	341	409	_	552	642	717	807
Management	81-5	69	109	176	259	342	410	472	552	642	717	807
Soils and nutrition	19	69	109	177	259	342	410	472	III.	643	717	807
Physiology and biochemistry	19	-	110	-	100	342	410	472	-	643	718	807
Reproduction	6(A 1(L	69	110	177	259 259	342	410	472	553	0 - 0	718	808 808
Harvesting and handling Quality	205	09	110	177	239	342		4/2		inlein	-	-
By-products	_	_	_	-	_	-	-	-	472	553	643	718
Almonds	19	69	110	ww.	259	342	410	472	DUA N		718	808
General	004	864	110	177	260	342	410	472	553	643	718	808
Selection and varieties Propagation and planting	19	69	110	177	260	343	411	473	553 553	643	719	808
Climate	_	-	111	178	261	344	412	473	- 1	644	720	810
Management Soils and nutrition	20	70 70	111	178 179	262 263	344 345	412	473 474	554 554	645	721 722	810
Soils and nutrition Crop protection	21	70	113	179	263	346	413	475	555	646	722	813
Physiology and biochemistry	21 22	71	114	182 183	264 265	346	414	475	556 557	648	725	814 815
Reproduction	22	71	115	184	265	347	415	476	557	649	726	816
Quality	22	72	72-	185	265	348	415	477	558	650	727	817
By-products Apricots	23	72	117	185	267 267	348	415	478	558	651	727	817
Cherries	. 23	72	117	185	267	349	415	478	559	652	728	818
Chestnuts Cobnuts and hazels	24	73	118	86-	269	350	1	479	559	653	728	819
Figs	24	-	375	185	269	350	-	-	1-1	12401	729	820
Mulberries Peaches and nectarines	24	73	118 118	186 186	269	350	416	479	559	653	729 729	820 820
Pears	24	74	120	187	270	352	418	480	561	654	731	821
Pecans and hickories Pistachios	25	74	121	188	270	354 354	_	481	562	656	731	822
Pistachios Plums, prunes and damsons	25	74	121	188	271	354	420	482		656	732	822
Quinces	25	75	121	189	271	355	420	482	562	657	733 733	822 823
Sundry crops	ME		121		272	-	420	102	DO- N		733	-
SMALL FRUITS AND VINES	26		122	100	272	255	420	102	562	657	724	022
General	26 .26	75	122	189	272	355	420	483	563	03/	734	823
Currants	26	75	122	190	272	355	421	483	563	657	734	823
Gooseberries	-	75	122		273	356	422		563	658	735	_
Blackberries		_	122	-			422		1	-	735	_
Raspberries	512	75 75	122	190	273	356	422	484	563	658	735	824
Vaccinium species	26	75	123	190	274	356	423	484	-	659	736	824
Strawberries	26	75	124	191	274	357	423	485	564	659	736	824
Vines General	27	77	124	192	275	358	424	485	564	661		827
Selection and varieties	015	- 77	.124	192	275	359	424	485	565	661	738	827

SMALL FRUITS AND VINES					77	124	193	275	359	424	-	565	661	739	827
Propagation and plantin Climate		***		_	77	126	175	-	359	424	485	565	662	740	828
					78	126	193	275	359	425	485	566	662	740	828
Soils and nutrition				27	78 78	126	194	276 276	360 360	425	487 487	567 568	664	740 740	829 829
Crop protection Physiology and biochem	nistry			_	80	126	195	277	361		488	569	665	742	830
Reproduction				user.	80	128	-	277	361	425	488	569	666	742 743	831
Harvesting and handling Quality				_	81 81	128 128	196	277	362 362	426	489	570 570	666	743	vIn
Quality By-products				_	-		-	_	-	-	-		14	4	1/-
Sundry crops			AY ANIT	_	-	_	196	_	_	426		570	_	-	831
VEGETABLES, TEMPERATE GREENHOUSE	E, IK	OPIC	AL ANL	,											
0 1				27	81	128	197	278	362	426	489	570	666	743	831
Chenopodiaceae				28	82	130	199	279	_	429	491	572	un _911	745	833
6 . 1				28	82	150	199	279	365	429	- 1	572	668	745	833
Spinach beet			15	-	THE .	-	-	279	_	-	491	572	120	1112	833
Compositae Artichokes (jerusalem)				29	_	130	199	279	365	429	492		668	745	833
Artichokes (globe)				-	-	-	-	-	365	429	-	572	_	77477	1-
CV .					-	120		270	265	_	492	573	1281A	745	833
Chicory Endive				29	-	130		279	365	429	492	573		143	834
Lettuce				29	82	130	199	279	365	430	492	573	668	745	834
Salsify				29		131	8 -	_	_	431	- HIS	573 574	11 - VII	747	N.
Scorzonera Other composites				_	_	-	_		_	431	_	5 /4	3/44/11	141	_
Cruciferae	495			1	0.4		-	200	061	401	4.0.5	501	(()	north n	024
Brassicas Cress	***			30	82	131	201	280 281	366	431	492	574	668	747	834
Radishes				31	83	133	201	281	368	432	493	575	669	749	836
Watercress				- 2.1	- 02	122	201	201	368	122	404	576	(70	750	927
Cucurbitaceae Leguminosae				31	83	133	202	281	368	432	494	576	670	750	837
Beans (Phaseolus)															
General				32	- 85	135	203		370	434	496	578 578	672	751 751	839 840
Selection and varietie Propagation and plan				52	85	135	203	283	370	434	496	578	673	752	840
Climate				-	85	135	204	283	370		_	-	673	1-1	840
		***		32 32	85	_	204	283	370 370	434	497	579	673	752 752	840
Crop protection	***			32	-85	135	204	283	371	435	497	579	673	752	841
Physiology and bioch		try		33	86	136	205	283	371	435	498	579	674	752	841
Reproduction				35	86	136	205	283	371	435	-	579	-	754	-
Reproduction Harvesting and hand		try 			86	136 136	205	283	371 372	435		579			
Reproduction Harvesting and handle Quality Beans (Vicia)	ling			35 - - 35	86 - - - 86	136 136 136	205 206 206 206	283 - - 284	371 372 372	435	499 499 499	579 - 580 581	- - 674	754 754 754	842
Reproduction Harvesting and handl Quality Beans (Vicia) Beans (Cyamopsis)	ling			35 - 35 35	86 - - 86 -	136 136 - 136	205 206 206 206	283 - - 284 284	371 372 - 372 373	435 - - 436 -	499 499 499 499	579 - 580 581	- 674 674	754 754 754	842 842 -
Reproduction Harvesting and hand Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera	ling			35 - - 35	86 - - - 86	136 136 136	205 206 206 206	283 - - 284	371 372 372	435	499 499 499	579 - 580 581	- - 674	754 754 754	842 —
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae	ling			35 - 35 35 35 -	86 - - 86 - 86 -	136 	205 206 206 206 206	283 - 284 284 285 -	371 372 372 373 373 373	435 - - 436 - 437 -	499 499 499 499 499	579 - 580 581 - 581	- 674 674	754 754 754	842 842 843
Reproduction Harvesting and hand Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera	ing			35 - 35 35	86 86 86	136 136 - 136	205 206 206 206 206 206	283 - 284 284 285 - 286	371 372 - 372 373	435 - - 436 -	499 499 499 499 499 501	579 580 581 581 582	- 674 674	754 754 754	842 842 -
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks	ling			35 - 35 35 35 - - 37 37	86 	136 136 136 138 138 138	205 206 206 206 206 - 206 -	283 	371 372 372 373 373 374 375 375	435 	499 499 499 499 499 - 501 501	579 - 580 581 - 581 - 582 582 583	674 674 674 674 –	754 - 754 754 - 754 -	842
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions	ling			35 - 35 35 35 - - 37 37 37	86 	136 - 136 - 136 - 136 - 138 138 138 138	205 206 206 206 206 - 209 - 209	283 	371 372 372 373 373 374 375 375 375	435 	499 499 499 499 499 - 501 501 501 502	579 - 580 581 - 581 - 582 582 583 583	674 674 674 - 676 676	754 - 754 754 - 754 - - 755	842
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae — Okra	ling			35 - 35 35 35 - - 37 37	86 	136 136 136 138 138 138	205 206 206 206 206 - 206 -	283 	371 372 372 373 373 374 375 375	435 	499 499 499 499 499 - 501 501	579 - 580 581 - 581 - 582 582 583	674 674 674 674 –	754 - 754 754 - 754 -	842
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae - Okra Polygonaceae - Rhubarb	ling			35 - 35 35 35 35 - 37 37 37	86 86 86 87 87 87	136 136 136 138 138 138 138 139	205 206 206 206 206 - 209 - 209	283 	371 372 	435 	499 499 499 499 499 - 501 501 501 502 503	579 580 581 581 582 582 583 583 584	674 674 674 674 - 676 676	754 - 754 754 - 754 - - 755	842
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae — Okra	ling			35 - 35 35 35 35 - 37 37 37 - 38	86 	136 136 136 138 138 138 138 139 139	205 206 206 206 - 206 - 209 - 209 - 210	283 	371 372 372 373 373 374 375 375 375 376	435 	499 499 499 499 499 - 501 501 501 502 503 503	579 580 581 581 582 582 583 583 584 	674 674 674 674 - 676 676	754 - 754 754 - 754 - - 755 - 756	842
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae — Okra Polygonaceae — Rhubarb Solanaceae Capsicums Eggplants	ling			35 - 35 35 35 35 - 37 37 37 - 38 38	86 	136 - 136 - 136 - 138 138 138 138 139 139	205 206 206 206 206 - 209 - 209 - 210	283 	371 372 372 373 373 374 375 375 376	435 	499 499 499 499 499 501 501 501 502 503 503 503	579 - 580 581 - 581 - 582 582 583 583 584 - -	674 674 674 674 - 676 676	754 -754 754 -754 - 755 - 756 756	842
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae — Okra Polygonaceae — Rhubarb Solanaceae Capsicums Eggplants Tomatoes	ing			35 - 35 35 35 35 - 37 37 37 - 38 38 38	86 	136 - 136 - 136 - 138 138 138 138 139 139	205 206 206 206 206 209 209 210 210 211	283 	371 372 372 373 373 374 375 375 376 - 376 377	435 	499 499 499 499 499 - 501 501 502 503 503 503 504	579 	674 674 674 674 - 676 676 677	754 754 754 754 - 755 755 756 756 757	842 842 843 - 844 845 845 845 846 846 846 846
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae — Okra Polygonaceae — Rhubarb Solanaceae Capsicums Eggplants Tomatoes General Selection and varietic	ing			35 - 35 35 35 35 37 37 37 37 - 38 38 38	86 86 86 87 87 87 87 87 87	136 -136 -136 -136 -138 138 138 138 139 139 139 140 -140	205 206 206 206 206 - 209 - 209 - 210 211 211 211 212	283 	371 372 372 373 373 373 374 375 375 375 376 376 377	435 	499 499 499 499 499 - 501 501 502 503 503 503 504 504	579 	674 674 674 674 676 676 677 677 678	754 754 754 754 755 756 756 757 757	842 842 843 844 845 845 845 845 846 846 846 847 847
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae — Okra Polygonaceae — Rhubarb Solanaceae Capsicums Eggplants Tomatoes General Selection and varietic	ing			35 - 35 35 35 35 - 37 37 37 - 38 38 38 38	86 	136 - 136 - 136 - 138 138 138 139 139 139 140 - 140 140	205 206 206 206 209 209 210 210 211 211 211 212 212	283 	371 372 372 373 373 374 375 375 376 - 376 377 377 378	435 	499 499 499 499 499 501 501 502 503 503 503 504 504 504	579 580 581 581 582 582 583 583 584 584 585 585 585 585	674 674 674 674 676 676 677 677 678	754 754 754 754 754 755 756 756 757 757	842 -842 -843 -844 845 845 845 846 846 846 846 847 847 847 847
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Cother genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae — Okra Polygonaceae — Rhubarb Solanaceae Capsicums Eggplants Tomatoes General Selection and varieti Propagation and plar Climate Management	ing			35 - 35 35 35 35 37 37 37 37 - 38 38 38	86 86 86 87 87 87 87 87 87	136 -136 -136 -136 -138 138 138 138 139 139 139 140 -140	205 206 206 206 206 	283 	371 372 372 373 373 374 375 375 376 - 376 377 378	435 		579 	674 674 674 676 676 677 677 678	754 754 754 754 754 - 755 756 756 757 757 757	842 -842 -843 -844 845 845 845 846 846 846 846 847 847 847 847 848 848
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae — Okra Polygonaceae — Rhubarb Solanaceae Capsicums Eggplants Tomatoes General Selection and varietic Propagation and plar Climate Management Soils and nutrition	ing			35 - 35 35 35 35 37 37 37 37 - 38 38 38 - 38	86 86 86 87 87 87 87 87 87 88 88 88 88 88 88 89	136 -136 -136 -138 138 138 139 139 139 140 -140 140 141 141	205 206 206 206 209 209 210 211 211 212 212 212	283 	371 372 372 373 373 374 375 375 376 376 377 378 378 378 378	435 		579 	674 674 674 676 676 677 677 678 678 678 679 679	754 754 754 754 755 756 756 757 757 757 757 758 759	842 -842 -843 -844 845 845 845 845 846 846 846 847 847 847 847 848 848 848
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae — Okra Polygonaceae — Rhubarb Solanaceae Capsicums Eggplants Tomatoes General Selection and varieti Propagation and plar Climate Management Soils and nutrition Crop protection	ing			35 - - 35 35 35 35 - 37 37 37 - 38 38 38 38	86 	136 -136 -136 -136 -138 138 138 139 139 139 140 -140 -40 140 -41 141 141	205 206 206 206 209 209 210 211 211 211 212 212 213	283 	371 372 372 373 373 374 375 375 376 376 377 378 378 378 378 378	435 	-9 499 499 499 499 - 501 501 502 503 503 503 504 504 504 505 505 505	579 	674 674 674 674 676 676 677 678 678 678 679 679 680	754 754 754 754 755 756 757 757 757 757 757 757	842 -842 -843 -844 845 845 845 846 846 846 846 847 847 847 848 848 848 848
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae — Okra Polygonaceae — Rhubarb Solanaceae Capsicums Eggplants Tomatoes General Selection and varieties Propagation and plar Climate Management Soils and nutrition Crop protection Physiology and biocl Reproduction	ing			35 - 35 35 35 35 37 37 37 37 - 38 38 38 - 38	86 86 86 87 87 87 87 87 87 88 88 88 88 88 88 89	136 -136 -136 -138 138 138 139 139 139 140 -140 140 141 141	205 206 206 206 209 209 210 211 211 212 212 212	283 	371 372 372 373 373 374 375 375 376 376 377 378 378 378 378	435 		579 	674 674 674 676 676 677 677 678 678 678 679 679	754 754 754 754 755 756 756 757 757 757 757 758 759	842 -842 -843 -844 845 845 845 845 846 846 846 847 847 847 847 848 848 848
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae — Okra Polygonaceae — Rhubarb Solanaceae Capsicums Eggplants Tomatoes General Selection and varieticy Propagation and plar Climate Management Soils and nutrition Crop protection Physiology and biocl Reproduction Harvesting and hand	ing			35 - - 35 35 35 35 - 37 37 37 37 38 38 38 - 38 38 - 38 38 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 4	86 	136 -136 -136 -136 -138 138 138 139 139 140 -140 140 141 141 141 142 -2	205 206 206 206 209 209 210 211 211 212 212 212 213 213 214 214	283 	371 372 372 373 373 374 375 375 376 - 376 377 378 378 378 378 378 378 378	435 		579 	674 674 674 674 676 676 677 677 678 679 679 680 680 681 681	754 -754 754 -754 -755 756 756 757 757 757 757 758 759 761	842 -842 -843 -844 845 845 845 845 846 846 846 847 847 847 848 848 848 848 848 850 851 851
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae — Okra Polygonaceae — Rhubarb Solanaceae Capsicums Eggplants Tomatoes General Selection and varieties Propagation and plar Climate Management Soils and nutrition Crop protection Physiology and biocl Reproduction	ing			35 - - 35 35 35 37 37 37 37 37 38 38 38 38 - - 38 38 38 40	86 86 86 87 87 87 87 87 88 88 88 88 89 89 89	136 -136 -136 -136 -138 138 138 139 139 139 140 -141 141 141 141 142 142	205 -206 -206 -209 -210 -210 -211 -211 -212 -212 -213 -213 -214	283 	371 372 372 373 373 374 375 375 376 376 377 378 378 378 378 378 378 378	435 		579 	674 674 674 674 676 676 677 677 678 679 679 680 680 681	754 -754 754 754 -755 756 756 757 757 757 757 758 759 759 759 761	842 -842 -843 -844 845 845 845 846 846 846 846 847 847 847 848 848 848 848 848 848 850 851
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Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae — Okra Polygonaceae — Rhubarb Solanaceae Capsicums Eggplants Tomatoes General Selection and varieti Propagation and planted the compagation of the compagation	ing			35 - - 35 35 35 35 - 37 37 37 37 - 38 38 38 38 - - - - - - - - - - - - -	86 	136 -136 -136 -138 138 138 138 139 139 139 140 -140 -140 141 141 141 142 143 143	205 -206 -206 -209 -209 -210 -211 211 211 212 -212 -213 213 214 214 214	283 	371 372 372 373 373 374 375 375 376 376 377 378 378 378 378 378 378 378	435 	-9 499 499 499 499 -9 501 501 503 503 503 503 504 504 505 505 505 505 505 505 507 507	579 	674 674 674 674 676 676 677 678 678 679 679 680 680 681 681 682	754 -754 754 754 -755 756 757 757 757 757 757 757	842 -842 -843 -844 845 845 845 846 846 846 846 847 847 847 847 848 848 848 848 849 850 851 852
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae — Okra Polygonaceae — Rhubarb Solanaceae Capsicums Eggplants Tomatoes General Selection and varieti Propagation and plar Climate Management Soils and nutrition Crop protection Physiology and biocl Reproduction Harvesting and hand Quality Umbelliferae Carrots Parsnips Celery Celeriac Sundry crops	ing			35 - - 35 35 35 37 37 37 37 37 38 38 38 38 - - 40 - 40 - - - - - - - - - - - - - -	86 	136 -136 -136 -136 -138 138 138 139 139 139 140 -140 -140 141 141 141 142 143 -143 -143	205 -206 -206 -209 -209 -210 -211 211 212 212 -212 -213 214 214 214 -215	283 	371 372 372 373 373 374 375 375 376 376 377 378 378 378 378 378 378 378	435 	501 501 501 501 503 503 503 503 504 504 505 505 505 505 507 507 507	579 	674 674 674 674 676 676 677 677 678 679 679 680 680 681 681 682 683	754 -754 754 754 -755 756 756 757 757 757 757 757	842 842 843 844 845 845 845 846 846 846 846 847 847 847 847 848 848 848 848 850 851 852 852 853
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae — Okra Polygonaceae — Rhubarb Solanaceae Capsicums Eggplants Tomatoes General Selection and varieticy Propagation and plar Climate Management Soils and nutrition Crop protection Physiology and biocl Reproduction Harvesting and hand Quality Umbelliferae Carrots Parsnips Celery Celeriac Sundry crops Mushrooms	ing			35 - 35 35 35 37 37 37 37 38 38 38 38 38 40 40 40 40	86 	136 -136 -136 -136 -138 138 138 139 139 139 140 -140 -140 140 -141 141 141 142 143 -143 -143	205 -206 -206 -209 -209 -210 -211 -211 -211 -212 -212 -213 -213 -214 -214 -215 -	283 	371 372 372 373 373 374 375 375 376 376 377 378 378 378 378 378 378 378	435 	-9 499 499 499 499 499 - 501 501 502 503 503 503 504 504 505 505 505 505 505 507 507 507	579 580 581 581 582 582 583 584 584 585 585 586 585 586 586 587 588 589 590 590 591 591	674 674 674 674 676 676 677 677 678 678 679 680 680 681 682 682 683	754 -754 754 754 -755 756 757 757 757 757 757 757	842 842 843 844 845 845 845 846 846 846 847 847 847 847 848 848 848 848 850 851 852 852
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae — Okra Polygonaceae — Rhubarb Solanaceae Capsicums Eggplants Tomatoes General Selection and varieti. Propagation and plar Climate Management Soils and nutrition Crop protection Physiology and biocl Reproduction Harvesting and hand Quality Umbelliferae Carrots Parsnips Celery Celery Celeriac Sundry crops Mushrooms ORMANENTAL PLANTS General Cordinate Cordinate Cordinate Cordinate Celeral Celeral Celeral Celeral Cordinate Cordinate Cordinate Celeral Celery Celeral Celeral Cordinate Co	ing			35 - - 35 35 35 37 37 37 37 37 38 38 38 38 - - 40 - 40 - - - - - - - - - - - - - -	86 	136 -136 -136 -136 -138 138 138 139 139 139 140 -140 -140 141 141 141 142 143 -143 -143	205 -206 -206 -209 -209 -210 -211 211 212 212 -212 -213 214 214 214 -215	283 	371 372 372 373 373 374 375 375 376 376 377 378 378 378 378 378 378 378	435 	501 501 501 501 503 503 503 503 504 504 505 505 505 505 507 507 507	579 	674 674 674 674 676 676 677 677 678 679 679 680 680 681 681 682 683	754 -754 754 754 -755 756 756 757 757 757 757 757	842 842 843 844 845 845 845 846 846 846 846 847 847 847 847 848 848 848 848 850 851 852 852 853
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae — Okra Polygonaceae — Rhubarb Solanaceae Capsicums Eggplants Tomatoes General Selection and varietich Propagation and plar Climate Management Soils and nutrition Crop protection Physiology and biock Reproduction Harvesting and hand Quality Umbelliferae Carrots Parsnips Celery Celery Celeriac Sundry crops Mushrooms ORMANENTAL PLANTS General Propagation and nursery m	ing	try		35 - - 35 35 35 35 - 37 37 37 37 38 38 38 38 38 40 - 40 40 40 41	86 	136 - 136 - 136 - 136 - 138 138 138 139 139 139 140 - 140 140 - 141 141 142 142 143 - 143 - 143 - 143 - 143 - 143	205 -206 -206 -209 -209 -210 -211 211 211 212 212 -213 214 214 -215 -215 -216 217	283 	371 372 372 373 373 374 375 375 376 376 377 378 378 378 378 378 378 378	435 	-9 499 499 499 499 499 -501 501 501 503 503 503 503 504 504 505 505 505 505 505 507 507 507 507 508 509	579 580 581 581 582 582 583 584 584 585 585 586 586 586 587 588 589 590 590 591 591 591 591 592 593	674 674 674 674 676 677 677 678 678 678 679 679 680 680 681 682 683 683 683 684 684	754 -754 754 754 -755 756 757 757 757 757 757 757	842 842 843 844 845 845 845 846 846 846 846 847 847 847 847 848 848 848 850 851 852 852 853 853 854 855
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae — Okra Polygonaceae — Rhubarb Solanaceae Capsicums Eggplants Tomatoes General Selection and varieti. Propagation and plar Climate Management Soils and nutrition Crop protection Physiology and biocl Reproduction Harvesting and hand Quality Umbelliferae Carrots Parsnips Celery Celery Celeriac Sundry crops Mushrooms ORMANENTAL PLANTS General Cordinate Cordinate Cordinate Cordinate Celeral Celeral Celeral Celeral Cordinate Cordinate Cordinate Celeral Celery Celeral Celeral Cordinate Co	ing	try		35 - - 35 35 35 35 - 37 37 37 - 38 38 38 38 - - - - - - - - - - - - -	86 	136 -136 -136 -136 -138 138 138 139 139 139 140 -141 141 142 142 143 143 -143 143 -143 144 145 145	205 206 206 206 209 209 210 211 211 212 212 212 213 213 214 214 214 215 215 216 217 218	283 	371 372 372 373 373 374 375 376 376 377 378 378 378 378 378 378 378	435 	-9 499 499 499 499 499 -501 501 502 503 503 503 504 504 505 505 505 505 505 507 507 507 507 507	579 - 580 581 - 581 - 582 582 583 583 584 - 584 585 586 586 586 586 587 590 590 591 591 591 591 591 591	674 674 674 674 676 676 677 678 678 679 679 680 680 681 682 683 683 683 684	754 -754 754 754 -755 756 756 757 757 757 757 757	842 842 843 844 845 845 845 846 846 846 846 846 847 847 847 848 848 848 848 850 851 852 852 853 853 854 855 855
Reproduction Harvesting and handle Quality Beans (Vicia) Beans (Cyamopsis) Peas Other genera Liliaceae Asparagus Garlic Leeks Onions Other Allium species Malvaceae — Okra Polygonaceae — Rhubarb Solanaceae Capsicums Eggplants Tomatoes Selection and varietic Propagation and plar Climate Management Soils and nutrition Crop protection Physiology and biock Reproduction Harvesting and hand Quality Umbelliferae Carrots Parsnips Celeria Sundry crops Mushrooms ORMANENTAL PLANTS General Propagation and nursery myeed control and plant propagation and plant propagation and plant propagation and nursery myeed control and plant propagation and nursery myeed co	ing	try		35 - 35 35 35 37 37 37 38 38 38 38 38 - 40 - 40 40 40 41 - 40	86 	136 - 136 - 136 - 136 - 138 138 138 139 139 139 140 - 140 140 - 141 141 142 142 143 - 143 - 143 - 143 - 143 - 143	205 -206 -206 -209 -209 -210 -211 211 211 212 212 -213 214 214 -215 -215 -216 217	283 	371 372 372 373 373 374 375 375 376 376 377 378 378 378 378 378 378 378	435 	-9 499 499 499 499 499 -501 501 501 503 503 503 503 504 504 505 505 505 505 505 507 507 507 507 508 509	579 580 581 581 582 582 583 584 584 585 585 586 586 586 587 588 589 590 590 591 591 591 591 592 593	674 674 674 674 676 677 677 678 678 678 679 679 680 680 681 682 683 683 683 684 684	754 -754 754 754 -755 756 757 757 757 757 757 757	842 842 843 844 845 845 845 846 846 846 846 847 847 847 847 848 848 848 850 851 852 852 853 853 854 855

ORNAMENTAL PLANTS (continuous Geraniums or pelargoniums														
		1.15	42			220	296	382	448	510	595	686	766	858
Gerberas		1	140, 891	92	145	220	296	382		-	- 11	686	766	_
Morning glories		54	1000-000		146	220		382	448		595	-211	766	A -
Petunias	***		42	92	146	221	296	382	448	611	595	686	767	858
Primulas Snapdragons	***	***			146	221	296	383	448	511	595	686	767	859
Other annual and herbaceous p	lants			92	146	221	296	383	448	511	595	687	767	859
Bulbs, tubers, etc. general					147	222	297	383			596			859
Anemones			4.2	02	1.47	222			4.44	-	-	-	-210	-
Begonias	***		43	93	147	222		384	449	512	596	687		860
Crocuses Cyclamen	***					223	-	384	449	512	597	688	769	861
Dahlias						223		384	449	-	-	-	769	861
Freesias	***					223		384				688	769	861
Gladioli	***		43		147	224	297	384	449	512	597	688	769	861
Gloxinias Hyacinths			43			225	297 297		449		598	688		861
Irises			43		148	225	271	384	449	512	598	000	1	862
Lilies			11/2- 50	93	148	225	297	384	450	512	598	688	770	862
Narcissi				93		226		384	450		598	689	770	862
Nerines			40	0.2	1.40	224	200	384	450	513	598		770	0.60
Tulips	***		43	93	148	226	298 299	385	450	513	598 599	689	770	862 863
Lawns and other turf			44	94	148	227	299	385	451	514	599	689	771	863
Aquatic plants			BIGH IN		110	_	300	5775	4 7	_		-	141	-
Bromeliads			44		149				451	515	599	-	773	864
Other foliage and succulent pla	nts		44	94	149	227	300	387	451	-	599	690	773	864
Orchids Trees and shrubs – general		***	45 45	94	149	228	300 300	387 388	452	515	600	690	773	865 866
Bougainvilleas			45	74	147	220	300	200	452		-	-	774	866
Camellias			45		150		301	_	452		_20	691	nelai si	-
Conifers			45		150	228	301	388	452	515	601	691	VALOR	8 -
Heathers	***	***				228	201	200	450		-	(01	-	-
Hollies	***					229	301	388	452	516	601	691	100	866
Ivies Jasmines	***	***						307		516			00210	-
Lilacs										516				
Magnolias	***								453	516	-	691	774	
Poinsettias		***		0.4	150	229	301	389	453		601	-	774	866
Rhododendrons and azaleas Roses		***	45	94	150	229	301	389 389	453 454	516 516	602	692 692	774 774	867 867
Other trees and shrubs	***	***	46	95	151	231	302	390	454	517	603	692	775	867
MINOR TEMPERATE AND TRO	PICA	L				201								
INDUSTRIAL CROPS			10.00	0.0			202	200		aller in			3	0.00
General		***	46 46	95 95	151	232	303	390	455	518	604	694	776	868 869
Condiments and spices Dyes			47	95	131	434	304	391	-	518	605	-	- 70	-
Essential oils	1		47	95	152	232	304	391	456	518	605	695	777	870
Hard fibres	***						-	392	-	519	606	-	778	871
Hops Insecticidal plants			47	96	152	233	305	392	457	519	606	696	778	871 872
Insecticidal plants Medicinal plants			48	96			300			519				872
Perennial fatty oil plants					153	133	306	393	43/		607	696		
	***	***	48	97	153	233	306 308	393 394	457	-	607	696	779 782	-
Sundry plants	***								457	521	607	696 698	779	
SUB-TROPICAL FRUIT AND PL	***		48	97			308	394		. 754			779 782	-
SUB-TRÓPICAL FRUIT AND PL CROPS	ANT	ATION	48	97	155	235	308	394	458	521	609	698	779 782 782	875
SUB-TROPICAL FRUIT AND PL	***		48 49	97			308 308 - 308	394 394 394		. 754			779 782	-
SUB-TRÓPICAL FRUIT AND PL CROPS General Avocados Carobs	ANT/	 ATION 	48 49	97 97	155	235	308 308	394	458 459	521	610	698	779 782 782 782	875 875
SUB-TRÓPICAL FRUIT AND PL CROPS General Avocados Carobs	ANT/	ATION	48 49 49 49	97 97	155 155 155	235 236 236	308 308 308 308 308	394 394 394 394	458 459 459	521 521 521	610 610	698 698 698	779 782 782 782	875 875 875
SUB-TRÓPICAL FRUIT AND PL CROPS General Avocados Carobs Citrus General	ANT/	ATION	48 49	97 97	155	235 236 236	308 308 - 308	394 394 394	459 459	521	610 610	698 698 698	779 782 782 782 782	875 875
SUB-TRÓPICAL FRUIT AND PL CROPS General Avocados Carobs Citrus General Selection and varieties Propagation and planting	ANT/	ATION	48 49 49 49 - 49	97 97 97	155 155 155 156	235 236 236 236 236	308 308 308 308 309 309 309 309	394 394 394 394 394 394	459 459 459 459 459 459	521 521 521 521 521 521 522	610 610 	698 698 698 - 698 698	779 782 782 782 782 783 783 783	875 875 875 - 876 876 876
SUB-TRÓPICAL FRUIT AND PL CROPS General Avocados Carobs Citrus General Selection and varieties Propagation and planting Climate	ANT/	 ATION 	48 49 49 49 -	97 97 97 97 97	155 155 155 156 156 156	235 236 236 236	308 308 308 308 309 309 309 309 309	394 394 394 394 394 394 394	459 459 459 459 459 459 459	521 521 521 521 521 521 522 522	610 610 610 610 610 610	698 698 698 - 698 698 699	779 782 782 782 782 783 783 783	875 875 875 876 876 876 876 876
SUB-TRÓPICAL FRUIT AND PL CROPS General Avocados Carobs Citrus General Selection and varieties Propagation and planting Climate Management	ANT/	 ATION 	48 49 49 49 -	97 97 97 97 97 98	155 155 155 156 156 156 157	236 236 236 236 236	308 308 308 308 309 309 309 309 309	394 394 394 394 394 394 395	459 459 459 459 459 459 459 459	521 521 521 521 521 521 522 522 522 522	610 610 610 610 610 610 611	698 698 698 - 698 698 699 699	779 782 782 782 782 783 783 783 783	875 875 875 876 876 876 876 876 876
SUB-TRÓPICAL FRUIT AND PL CROPS General Avocados Carobs Citrus General Selection and varieties Propagation and planting Climate Management Soils and nutrition	ANT/	ATION	48 49 49 49 -	97 97 97 97 97 97 98	155 155 155 156 156 156	235 236 236 236 236	308 308 308 308 309 309 309 309 309	394 394 394 394 394 394 394	459 459 459 459 459 459 459	521 521 521 521 521 521 522 522	610 610 610 610 610 610	698 698 698 - 698 698 699	779 782 782 782 782 783 783 783	875 875 875 876 876 876 876 876
SUB-TRÓPICAL FRUIT AND PL CROPS General Avocados Carobs Citrus General Selection and varieties Propagation and planting Climate Management Soils and nutrition Crop protection	ANT/	 ATION 	48 49 49 49 - 49 - 49	97 97 97 97 97 98 98 98	155 155 156 156 156 157 157	236 236 236 236 236 236 236	308 308 308 308 309 309 309 309 310 312	394 394 394 394 394 394 395 395	459 459 459 459 459 459 459 459 459	521 521 521 521 521 521 522 522 522 522	610 610 610 610 610 610 611 611	698 698 698 	779 782 782 782 782 783 783 783 783 783	875 875 875 876 876 876 876 876 876
SUB-TRÓPICAL FRUIT AND PL CROPS General Carobs Citrus General Selection and varieties Propagation and planting Climate Management Soils and nutrition Crop protection Physiology and biochemistry Reproduction	 y	ATION	48 49 49 49 - 49 - 49 - 49	97 97 97 97 97 98 98 98	155 155 155 156 156 156 157 157 158 158 159	236 236 236 236 236 236 237 238 238	308 308 308 308 309 309 309 309 309 310 312 312	394 394 394 394 394 394 395 395 396 396 396	458 459 459 459 459 459 459 459 459 461	521 521 521 521 521 521 522 522 522 522	610 610 610 610 610 610 611 611 611 612 612	698 698 698 	779 782 782 782 783 783 783 783 784 784 785 785	875 875 876 876 876 876 876 876 877 878
SUB-TRÓPICAL FRUIT AND PL CROPS General Carobs Citrus General Selection and varieties Propagation and planting Climate Management Soils and nutrition Crop protection Physiology and biochemistr Reproduction Harvesting and handling	ANT/	 ATION 	49 49 49 49 49 49 50	97 97 97 97 97 98 98 98 98	155 155 155 156 156 157 157 158 158 159 159	236 236 236 236 236 236 237 238 238 238 238	308 308 308 308 309 309 309 309 310 312 312 313	394 394 394 394 394 395 395 396 396 396	459 459 459 459 459 459 459 459 459 461 461	521 521 521 521 521 522 522 522 522 522	610 610 610 610 610 610 611 611 611 612 612 613	698 698 698 	779 782 782 782 782 783 783 783 784 784 785 785 786	875 875 875 876 876 876 876 876 876 877 878 878
SUB-TRÓPICAL FRUIT AND PL CROPS General Avocados Citrus General Selection and varieties Propagation and planting Climate Management Soils and nutrition Crop protection Physiology and biochemistr Reproduction Harvesting and handling Quality	ANT/	ATION	48 49 49 49 49 49 49 50 50	97 97 97 97 97 98 98 98 98	155 155 156 156 156 157 157 158 158 159 159	236 236 236 236 236 236 237 238 238	308 308 308 308 309 309 309 309 310 312 312 313 313	394 394 394 394 394 395 395 396 396 396 398	458 459 459 459 459 459 459 459 459 461	521 521 521 521 521 522 522 522 522 522	610 610 610 610 610 610 611 611 611 612 612 613 613	698 698 698 	779 782 782 782 782 783 783 783 784 784 785 786 786	875 875 876 876 876 876 876 876 877 878 878
SUB-TRÓPICAL FRUIT AND PL CROPS General Avocados Citrus General Selection and varieties Propagation and planting Climate Management Soils and nutrition Crop protection Physiology and biochemistr Reproduction Harvesting and handling Quality By-products	ANT/	 ATION 	49 49 49 49 49 49 50	97 97 97 97 97 98 98 98 98	155 155 155 156 156 157 157 158 158 159 159	236 236 236 236 236 236 237 238 238 238 238	308 308 308 308 309 309 309 309 310 312 312 313	394 394 394 394 394 395 395 396 396 396	459 459 459 459 459 459 459 459 459 461 461	521 521 521 521 521 522 522 522 522 522	610 610 610 610 610 610 611 611 611 612 612 613	698 698 698 	779 782 782 782 782 783 783 783 784 784 785 785 786	875 875 875 876 876 876 876 876 876 877 878 878
SUB-TRÓPICAL FRUIT AND PL CROPS General Avocados Carobs Citrus General Propagation and varieties Propagation and planting Climate Management Soils and nutrition Crop protection Physiology and biochemistr Reproduction Harvesting and handling Quality By-products Dates Feijoas	ANT/	 ATION	49 49 49 49 49 50 50 50	97 97 97 97 97 98 98 98 98 99 99	155 155 156 156 156 157 157 158 159 159 160 160	236 236 236 236 236 237 238 238 238 238	308 308 308 308 309 309 309 309 310 312 312 313 313 314	394 394 394 394 394 394 395 395 396 396 396 398 398	458 459 459 459 459 459 459 459 461 461 461	521 521 521 521 522 522 522 522 522 523 523 524 524 524	610 610 610 610 610 611 611 611 612 612 613 613 613	698 698 698 698 698 699 699 700 700 701 701	779 782 782 782 783 783 783 783 784 784 785 786 786 787	875 875 876 876 876 876 876 876 877 878 878 878
SUB-TRÓPICAL FRUIT AND PL CROPS General	ANT/	ATION	49 49 49 49 49 49 50 50 50 50	97 97 97 97 97 98 98 98 98 99 99	155 155 156 156 156 157 157 158 158 159 159 160	236 236 236 236 236 237 238 238 238 238	308 308 308 309 309 309 309 310 312 312 313 313 314 314	394 394 394 394 394 395 395 396 396 396 398 398	459 459 459 459 459 459 459 459 461 461	521 521 521 521 521 522 522 522 522 522	610 610 610 610 610 611 611 611 612 613 613 613	698 698 698 698 698 699 699 700 701 701 701 702	779 782 782 782 783 783 783 784 784 785 786 786 787 787	875 875 875 876 876 876 876 876 877 878 878 878 879
SUB-TRÓPICAL FRUIT AND PL CROPS General	ANT/	ATION	48 49 49 49 49 	97 97 97 97 97 98 98 98 98 99 99	155 155 156 156 156 157 157 158 159 159 160 160	236 236 236 236 236 237 238 238 238 238	308 308 308 308 309 309 309 309 310 312 312 313 314 314	394 394 394 394 394 395 395 396 396 398 398	459 459 459 459 459 459 459 459 461 461 461	521 521 521 521 521 521 522 522 522 522	610 610 610 610 610 611 611 611 612 613 613 614	698 698 698 698 698 699 699 700 701 701 702 702	779 782 782 782 783 783 783 783 784 784 785 786 786 787	875 875 876 876 876 876 876 876 877 878 878 879 879
SUB-TRÓPICAL FRUIT AND PL CROPS General	ANTA	ATION	48 49 49 49 49 49 50 50 50 50	97 97 97 97 97 98 98 98 98 99 99	155 155 155 156 156 157 157 157 158 159 159 160 160	236 236 236 236 236 237 238 238 238 239 239	308 308 308 309 309 309 309 310 312 312 313 313 314 314	394 394 394 394 394 395 395 396 396 396 398 398	459 459 459 459 459 459 459 459 461 461 - 461	521 521 521 521 521 521 522 522 522 522	610 610 610 610 611 611 611 612 613 613 614	698 698 698 698 699 699 699 700 701 701 702 702 702	779 782 782 782 783 783 783 784 784 785 786 786 787 787	875 875 876 876 876 876 876 876 877 878 878 879 879
SUB-TRÓPICAL FRUIT AND PL CROPS General	ANT/	ATION	48 49 49 49 49 	97 97 97 97 97 98 98 98 98 99 99	155 155 156 156 156 157 157 158 159 159 160 160	236 236 236 236 236 237 238 238 238 238	308 308 308 309 309 309 309 310 312 312 313 313 314 314	394 394 394 394 394 395 395 396 396 398 398	459 459 459 459 459 459 459 459 461 461 461	521 521 521 521 521 521 522 522 522 522	610 610 610 610 610 611 611 611 612 613 613 614	698 698 698 698 698 699 699 700 701 701 702 702	779 782 782 782 783 783 783 784 784 785 786 786 787 787	875 875 876 876 876 876 876 876 877 878 878 879 879
SUB-TRÓPICAL FRUIT AND PL CROPS General	ANT/	ATION	48 49 49 49 49 49 49 50 50 50 50	97 97 97 97 98 98 98 98 99 99 99	155 155 155 156 156 156 157 157 158 159 160 160 160	236 236 236 236 236 237 238 238 238 239 239 240 240 241	308 308 308 308 309 309 309 309 310 312 312 313 314 314 314	394 394 394 394 394 395 395 396 396 396 398 	459 459 459 459 459 459 459 459 461 461 461 462 462 462 462	521 521 521 521 521 522 522 522	610 610 610 610 611 611 612 612 613 613 614 614	698 698 698 698 698 699 699 699 700 701 702 702 702 702 702	779 782 782 782 783 783 783 783 784 785 786 787 787 787	875 875 876 876 876 876 876 877 878 878 879
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SUB-TRÓPICAL FRUIT AND PL CROPS General	ANT/	ATION	48 49 49 49 49 49 50 50 50 50 50	97 97 97 97 97 98 98 98 98 99 99 99 100	155 155 156 156 156 157 157 158 158 159 160 160 160 160 161 161 161	236 236 236 236 236 237 238 238 239 239 240 240 241 241	308 308 308 308 309 309 309 309 310 312 312 313 314 314 314 314	394 394 394 394 394 395 395 396 396 398 398 398 398	459 459 459 459 459 459 459 459 461 461 461 461 462 462 462 462 462	521 521 521 521 521 522 522 522	610 610 610 610 611 611 612 612 613 613 614 614	698 698 698 698 699 699 699 700 701 701 702 702 702 702 702 702 702	779 782 782 782 782 783 783 783 783 784 785 786 787 787 787 787 787	875 875 876 876 876 876 876 877 878 879 879 879 879 880

TROPICAL FRUIT AND PLANTA	ATION	CROP	S									
General	***		50 100	161 24		398	462	526	615	702	788	880
Annona species	***	.52	10 - 10 - D	161 24					-	_	No.	J. 12
Arecanuts			V 5- 11371	161 -			462	-	-	703	TOTAL	881
Bananas and abaca	444	2"	50 100	161 24	1 315	399	462	526	615	703	788	881
Cacao			51 101	162 24	2 316	400	463	526	615	703	789	881
Cashews			155- 151-			400	464	-	616	704	STORE S	882
Coconuts			51 101	163 24	2 316	400	464	527	616	704	789	882
Coffee	8	1.10	51 101	164 24	2 317	400	464	527	616	704	790	883
Cola				-		401	_		-	705	791	_
Guavas			52 101	166 24	3 318	401	_	528	_	- 1	791	884
Mangoes			52 101	166 24	3 318	401	465	528	617	705	791	884
Oil palms			- 101	166 24	3 320	401	465	528	61.7	705	791	885
Papaws	***		52 102	167 24	3 321	402	466	-	617	706	792	886
Pineapples			52 102	167 24	4 321	402	466	529	617	706	792	886
Rubber		1.0	100- III -	168 24	4 321	402	466	529	618	707	792	886
Sapodilla		0.00		- 24	4 -	403	_	529	618	- 26	m+of	887
Sugar cane												
General			201- HB -	- 6.0 -		403	466	529	618	707	793	887
Selection and varieties		1	52 102	168 24	4 322	403	466	529	618	707	793	888
Propagation and planting		***	AC50	168 -	_	403			618	_	794	888
Climate	200		52 102			403	_	529		708	795	.889
Management	1.3	905	52 -	168 24	4 322	403	466	529	619	708	795	889
Soils and nutrition		111/2	53 -	168 -	322	403	466	-	619	1 -10	796	890
Crop protection		4.1	54 102	169 24	4 322	404	467	530	619	708	797	890
Physiology and biochemistry			54 –	170 24	5 -	404	-	-	620	709	799	891
Reproduction			- 040 -	170 -	-	_	-		-	-	800	891
Harvesting and handling			54 -	170 24	5 322	404	467	530	620	709	800	892
Quality		0	85 - VPI -	171 -	322			530	-	710	800	892
By-products			855- HEL -66	- 11 -	_	-	b	530		710		7 -
Tea			- 102	171 24	5 322	404	467	530	620	710	801	892
Ziziphus species	***		- 103	- 24	5 324			531		/ /	AL STOR	893
Sundry crops	1.43	14.1	55 103	171 24	5 324	405	468	531	622	711	802	893
AUTHOR INDEX	1	LUE	895									
SUBJECT INDEX	V.V.		933									
List of Journals scanned			1135									
1			1133									

SYMBOLS FOR LINITS

SYMBOLS	FOR UNITS				
Symbol	Unit or Prefix	Symbol	Unit or Prefix	Symbol	Unit or Prefix
_		Ala			199
a	are	g G	gramme	μbar	microbar
Å	ampere		giga-	min	minute (time)
	angstrom	gal	gallon	mol	
atm Btu	standard atmosphere British thermal unit	h	hecto-	n Ω	nano-
			hour		ohm
bu	bushel	hp	horsepower	OZ	ounce
°C	centi-	hz	hertz .	p	pico-
-	degree Celsius	in	inch	pt	pint
cal	calorie	J ORE V	joule	q	quintal
cd	candela	k	kilo-	qt	quart
Ci	curie	1	litre	R	Roentgen
ctl	cental	lb	pound	rad	rad (amount of
cwt	hundredweight	lbf	pound-force	the letter	absorbed radiation
d	deci-	lm	lumen	S	second (time)
da	deca-	lx	lux	t year	tonne (metric ton)
erg	erg	m	metre	T	tera-
f	femto-	m	mille-	ton	ton
°F	degree Fahrenheit	mbar	millibar	V	volt
fl oz	fluid ounce	M	mega-	W	watt
ft	foot	μ	micro-	yd	yard
SYMBOLS	FOR LANGUAGES				
Af Afrika		F11 F11	at 100 mg		
Ar Arabic		Fi Finnisi Fr French			n and Flemish
Be Beloru		Fr French Gr Greek	1	No Norw	
Bg Bulgar		He Hebre		Pl Polish	
Ch Chines		Hu Hunga		Pt Portu Ro Roma	
Cs Czech		In Indone		Ru Russi	
Da Danish		It Italian			an o-Croat
De Germa	an	Ja Japane		Sk Slova	
Ee Estoni		Ko Koreai		Sn Slove	
En Englis	h	Li Lithua		Sv Swed	
Eo Espera		Lv Latvia		Tr Turki	
Es Spanis	sh	Ma Maced	onian	Uk Ukrai	

Symbols with capitals represent the language of the paper; symbols without capitals the summaries.

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publication of technical monographs, some of which are standard works.

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photocopies.

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control of animal and plant pests by their natural enemies (i.e. biological control services)

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Director: A. Johnston, BSc, AICTA, FIBiol.

Commonwealth Institute of Biological Control, Gordon Street, Curepe, Trinidad, West Indies

Director: F.J. Simmonds, MA, PhD, DSc, FRSA.

Commonwealth Institute of Helminthology, The White House, 103 St. Peter's Street, St. Albans, Herts. Director: Miss S.M. Willmott, PhD, FIBiol.

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Pastures & Field Crops, Hurley, Maidenhead SL6 5LR. Director: P.J. Boyle, MA

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(as at 1 January, 1974)

14					Representing
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M. SANI				***	Malaysia
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(To be nominated)	1000000000				Cyprus
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(To be nominated)	1 19 130 mun				Tanzania
THE DEPUTY HIGH COMMISSION	ER			/own India	Jamaica
P. HEZEKIAH	rathe and said		V	Depth of	Trinidad & Tobago
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THE DEPUTY HIGH COMMISSION	IER	mosteria :	***	maly redu	Barbados '
B. APPADOO	2511.00.01				Mauritius .
R.M. MOTSA					Swaziland
K.R. BAIN	and an SW2 STR	9,9180		4.00	Fiji
D.M. KITCHING	AAE PWT-break	UE-191 lgs /	ani l	100	Dependent Territories
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 $\begin{tabular}{ll} ERRATA \\ \end{tabular} \begin{tabular}{ll} (lines are counted from the beginning of the bibliographic data in each item.) \\ \end{tabular}$

Volume 43

Page	Abstract	Line	
17	7	3	for 'Africal' read 'African'
19	30	3	for 'Biolgy' read 'Biology'
19	33	6	for 'almonds' read 'in almonds'
22 24	57 81	4	for 'Gartenbausissenschaft' read 'Gartenbauwissenschaft' for 'tricylohexyltin hydroxide' read '(tricylohexyltin hydroxide)'
27	115	1	for 'AVALL' read 'AVALL'
28	128	11	for 'annus' read 'annuus'
32	164	17	for 'abst. 15' read 'abst. 151'
38 42	236 278	1 7	for 'SPALDON' read 'SPALDON' for 'mg/ml' read 'µg/ml'
43	293	1	for 'REPPO, E.' read 'REPPO, È'
43	296	î	for 'BEHERSBERGER' read 'BEHERSBERGEN'
44	300	2	for 'VIYAYAN' read 'VIVAYAN'
100	816	11	for '2.51' read '2.5 litres'
110 200	915 1968	5 13	for 'Es' read 'Pt' for 'NH ₄ +' read 'NH ₄ +'
237	2394	8	for 'Rotylenchus reniformis' read 'Rotylenchulus reniformis'
309	3100	6	for 'Pomicirus' read 'Poncirus'
320	3237	1	for 'KAOHRU' read 'KACHRU'
320	3241	1 4	for 'KAOHRU' read 'KACHRU'
342 342	3359 3361	6	for 'Növénvédelem' read 'Növényvédelem' for 'rising' read 'original'
346	3406	2	for 'various' read 'virus'
373	3739	7	for '12.8/3.5°C 35/26.7°' read '12.8/4.5°C to 3.5/26.7°'
384	3873	3/4	for 'Instituut von Plantenzicktenkundig Ouderzoek' read
386	3895	17	'Instituut voor Plantenziektenkundig Onderzoek' for 'lies' read 'lines'
390	3925	2	for 'wood' read 'woody'
401	4064	3	for 'Ew' read 'En'
401	4064	5/6	for 'the preceding abstract' read 'HcA 43, 1592'
408 412	4140 4186	3	for 'systemaischen' read 'systemischen'
414	4218	8	for '14.5°' read '14.5°C' for 'ethylenthiorourea' read 'ethylenethiourea'
415	4234	25	for 'incisa' read 'incisa'
416	4240	5	for 'Phenolysynthese' read 'Phenolsynthese'
420 421	4290 4297	4 2	for 'Restinevodstva' read 'Rastenievodstva' for 'RILLAR' read 'RILLAAR'
421	4307	1	for 'ADASKALĪTSIĬ' read 'ADASKALĪTSIĬ'
422	4309	7	for 'compound' read 'compounds'
426	4358	3	for '4' read '34'
428 432	4382 4428	4	for 'Bedrÿfsontwikkeling' read 'Bedrijfsontwikkeling' for 'brassicae' read 'brassicae'
432	4438	1	for 'RENVALI' read 'RENVALL'
432	4438	5	for 'best results' read 'best results were obtained'
435	4472	6	for '(BMPV)' read '(BPMV)'
435 437	4479 4502	2	for 'phaseolus' read 'Phaseolus' for 'Puirification' read 'Purification'
440	4532	4	for 'annum' read 'annum'
440	4539	2	for 'aacriens' read 'acariens'
445	4600	5	for 'di' read 'identificazione di'
445 445	4601 4602	15 2	for 'sporcarp' read 'sporocarp' for '3,6' read '3 (6) 823–826'
447	4630	8	for 'few' read 'few hours'
448	4634	2	for 'Patholology' read 'Pathology'
448	4641	1	for 'Gaillardiaaristata' read 'Gaillardia aristata'
453	4699	1	insert 'DENMARK'
455 456	4725 4744	10	for 'saragentii' read 'sargentii' after hybrid M. insert 'lavenduliodera'
462	4826	5	for 'Rhyde' read 'Ryde'
463	4844	5	for 'amelondado' read 'amelonado'
465	4869	1	for 'Nodulsisporium' read 'Nodulisporium'
466 467	4884 4889	3 2	for 'açúar' read 'açúcar' for 'açácar' read 'açúcar'
467	4901	9	for 'and' read 'the'
468	4910	2	for 'XI' read 'IX'

Page	Abstract	Line	
473	4957	3	for 'statification' read 'stratification'
474	4970	8	for 'Shteifling' read 'Shtreifling'
485	5096	4	for 'Botrytis' read 'Botrytis'
488	5140	3	for 'vinifera' read 'vinifera'
499	5271	7	for 'leguminosarum' read 'leguminosarum'
501	5297	6	for 'sativum' read 'sativum'
504	5328	4	for 'gloesporioides' read 'gloeosporioides'
506	5357	6	for 'plants sprayed' read 'plants were sprayed'
512	5424	5	for 'Bloeebollenonderzoek' read 'Bloembollenonderzoek'
518	5486	4	for 'Hance' read 'Hance'
518	5489	3	for 'form' read 'form'
518	5500	2	for 'arvensis' read 'arvensis'
520 521	5523 5536	5 2 2	for 'caucasica' read ' <i>caucasica</i> ' for 'a-BHC' read 'γ-BHC'
521	5547	3	for '362' read 'No. 362'
524	5574	12	for 'citri' read 'citri'
526	5611	2	for 'cacao' read 'cacao'
529	5652	4	for '80' read 'No. 80'
549	5676	5	for '2-component' read '2-component plant'
592	6124	8	for 'originating' read 'The <i>Pleurotus</i> strain designated <i>P</i> . Florida
	0 2 20 .		FovoSe originating'
614	6373	9	for 'chloropane' read 'chloropropane'
645	6546	10	for 'after thinning and shortening' read 'after pruning, thinning and
			shortening'
645	6547	1	add 'TESIC, M.' as second author
650	6589	11	for 'stability' read 'storability'
651	6601	19	for 'String of green fruit' read 'Storage of green fruit'
677	6882	1	for 'information' read 'infection'
679	6903	7	for 'weed diphenamid,' read 'weed control in'
717	7314	13	for 'peach and' read 'peach and Early Italian prune.'
724 724	7392 7392	12 13	for 'herparana' read 'heparana' for 'Arching vylogtagna' read 'Arching vylogtagna'
732	7475	7	for 'Archips xylosteana' read 'Archips xylosteana' for '(PRSV) 0.6%' read '(PRSV) varied between 0.6%'
733	7477	6	for 'P. spinosa in' read 'P. spinosa were studied in'
733	7477	15	for 'cytochrome oxidase' read 'that of <i>P. domestica</i> '
742	7582	17	for 'resistance decreased' read 'resistance at times of high energy load.
		- '	Abaxial stomatal resistances decreased'
762	7823	9	for 'guineense' read 'guineense'
765	7859	7	for 'J/m ² /s' read 'J/m ² /s) in'
798	8228	9	for '[Ceratocystis]' read '[Ceratocystis]'
811	8365	16	for 'the regular development' read 'and the dependence of'
821	8465	12	for 'differences flowering' read 'differences in flowering'
823	8487	7/8	for 'Cologne, German Federal' read 'cvs with the Hydrapick'
828	8542	5	for 'Institut M.I. Kalinina' read 'applied in late April'
854	8833	1	for 'Mushroom' read 'Straw mushroom'
862	8895	6	for 'exposing them to 32.2°C' read 'The effects of the time'

AUTHOR INDEX

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All separate name particles, e.g. Di & von, are transposed to follow the initials.

Variants of author's names may appear next to each other.

Anonymous articles are indexed by publication.

Acta Phytotherapeutica 6238 American Fruit Grower 1831 American Vegetable Grower 4915

CELOS Bulletin 1604 Champignoncultuur 263 Champignoncultuur Grower Deciduous Fruit Grower Farming in South Africa Flavour Industry 2321 Frutticoltura 1372, 4301 Goodfruit Grower 6638 Groenten en Fruit 4375 3565 3507 International Sugar Journal

Japan Pesticide Information 4141, 4932
Leaflet, US Department of Agriculture 19
Orchardist of New Zealand 4189

Pépiniéristes, Horticulteurs,

Maraîchers 6969 Quarterly News Letter, Tea Research Foundation of Central Africa 7266, 8277 Queensland Agricultural Journal 5492, 7120 Serviço Informativo da Junta Nacional das Frutas 5547

South African Sugar Journal 6451 Technical Advances in Shikoku Agriculture 7128 Tuinbouwberichten 6096

Tuinbouwberichten 6096 Tuinderij 1970 World Crops 1696 Aalders, L. E. 105, 2689, 3532, 3543, 6685, 6688 Aaron, J. R. 880 Abadzhyan, R. A. 1927 Abas, S. 8697 Abasa, R. O. 397, 1584, 3205,

6407 Abawi, G. S. 1149, 2831

Abawi, G. S. 1149, 2831 Abbasov, A. M. 6816 Abbasy, A. M. 652 Abbott, A. J. 658 Abd El-Rahman, A. A. 9008 Abd-El-Rehim, M. A. 4456 Abd-El-Wahab, F. K. 2438 Abdalla, D. A. 436 Abdalla, M. M. 8210 Abdel-Fattah, A. F. 1245 Abdel-Gawad, M. M. 3023 Abdel-Kader, E. M. 3049, 9063, 9064

9063, 9064 Abdel-Rahman, M. 4526 Abdel-Salam, A. M. 630, 631, 652, 5222, 5905, 7147 Abdel-Shaheed, G. A. 631,

Abdel-Shaheed, G. H. 630 Abdel-Wahab, S. M. 3049 Abdou, I. A. 5168, 5172 Abdou, Y. A. 6819 Abdrakhmanov, O. K. 7109 Abdrakhmanov, S. G. 521 Abdulkadyrov, S. K. 4999 Abe, T. 6826 Abeles, A. L. 4483, 7720 Abeles, F. B. 222, 448, 1673, 4483, 7720

Aberconway, Lord 7035

Aberhart, D. J. 9014 Abeywardena, V. 1565, 9148 Abidi, S. M. H. 401 Abidov, A. 5921 Abiko, K. 6642, 7449 Abo-El-Dahab, M. K. 4667 Aboaba, F. O. 6492 Abolina, G. I. 2773 Abou-Awad, B. A. 29, 72 Abou-Awad, B. A. 29, 72 Abou-Aziz, A. B. 3500, 5055 Abou-El-Gheat, Z. H. 5168 Abou-Zamzam, A. M. 2028 Abou-Zeid, A. 7427, 7432,

8431 Abou-Zeid, A. A. 5168, 5172 Abou-Zied, E. N. 7976, 9019 Abraham, D. J. 2343, 5532 Abraham, V. A. 1562, 1563, 8142

8142 Abramishvili, V. P. 6640 Abramov, Yu. Sh. 6740 Abramova, L. Z. 8545 Abrasheva, P. 2722 Abreu, J. M. de 3185 Abu Blan, H. A. 5892 Abu, J. 3770 Abu, J. F. 602 Abb, Salib, H. S. 5346 Abu Salih, H. S. 5346 Abu Yaman, I. K. 5892 Abusin, A. M. 4875 Accati, E. G. 156, 4378 Accorsi, W. R. 7703 Acedo Villalba, F. J. 1522 Acedo Villalba, F. J. 15 Achari, R. G. 3073 Acharyya, N. 6396 Achten, J. 1330, 8854 Achtzehn, M. K. 7619 Acín Díaz, N. M. 1648 Ackerman, W. L. 315 Ackermann, C. E. 7074 Acland J. D. 376 Ackermann, C. E. Acland, J. D. 376 Acock, B. 3296 Acquier, G. 6698 Adachi, S. 6361 Adam, A. V. 3249 Adamič, F. 2519 Adams, D. G. 220 376 3249

2204, 8909 Adams, P. 6910 Adams, P. B. 6944 Adams, R. E. 8514 Adams, W. 8671 Adamson, R. M. 1285, 2122, 5444

Adansi, M. A. 1601, 7142, 8166 Adaskalītsīi, M. M. 4307

Adaskalitsii, M. M. 4307 Adato, I. 5594 Adato, Y. 8106 Adawi, S. 3366 Adedipe, N. O. 1322, 2068 2788, 4623, 7668 Adegbola, M. O. K. 4844 Adlerz, W. C. 3588, 5951, 6824 1322, 2068,

Adlung, K. G. 5685 Adrianov, S. N. 2869 Adrianova, G. P. 835

Adrianova, G. P. 8358 Adriansen, E. 6135 Adrichem, M. C. J. van 4314 Adsuar, J. 669, 9193 Aduayi, E. A. 393, 2452, 4859, 6405 Aerts, J. 4330, 6698 Afanasenko, N. A. 948 Afaq, S. H. 7973 Agafonov, N. V. 969 Agafonova, Z. Ya. 5101 Agamalian, H. 603, 5305 Agaronyan, A. G. 5113 Agamalian, H. 603, 5305 Agaronyan, A. G. 5113 Agaronyan, A. G. 5113 Agarwal, R. A. 1639 Agarwal, S. C. 7971 Agarwala, S. B. D. 9272 Aggaga, M. E. 4770 Aggarwal, O. P. 1416 Agnihotri, B. N. 5606 Agnihotri, J. P. 7616 Agrawal, G. D. 1426 Agrawal, S. C. 788

Agrios, G. N. 4272, 5770, 6565 Agüero, G. 8173 Aguirre, J. A. 5609 Agulhon, R. 6731 Aharoni, N. 1978, 6948 Ahée J. 1605 Ahée, J. 9185 7254 Ahlrichs, L. E. Ahmad, A. 666 Ahmad, I. 609 Ahmad, S. 8036 Ahmed, E. M. 1504, 9103 Ahmed, M. 1346, 3096 Ahmed, N. 9229 Ahmed, N. 9229 Ahmed, N. J. 6429 Ahmed, S. S. 8042, 8043, 9058 Ahmed, Z. F. 1399, 3079 Ahmedullah, M. 596, 3599 Ahn, S. H. 522 Ahn, Y. P. 1445 Ahrens, J. F. 7042 Aillaud, G. 5319 Aina, O. J. 1291 Aitken, J. B. 1016, 1827, 5032 Aitken, J. B. 1016, 1827, 5032, 6527, 6636 Aitken, W. M. 3255 Akamine, E. K. 2435, 4072, 4878, 6158, 6418 Akao, S. 7157, 8093, 9084, 9085 Akashi, V.

Akashi, Y. 7134 Akatnova, A. G. 7569 Akatnova, A. G. 7569 Akhmedov, A. M. 4345 Akhtar, S. W. 9224 Akhund-Zade, I. M. 8109 Akhundova, E. M. 5289 Akiba, F. 4528, 4533, 5328 Akram, M. 2837, 5514 Aksenova, V. A. 5935 Aksomaĭtis, P. K. 1141 Al-Ani, T. A. 5243 Al-Delaimy, K. S. 812 Al-Jaru, S. 8445 Al-Jasim, H. A. 812

Al-Jaru, S. 8445
Al-Jasim, H. A. 812
Al-Rawi, A. 7521
Al-Vagab, K. 1302
Alabastro, V. Q. 4527
Alabouvette, C. 1192
Alabran, D. M. 7821
Alam, M. M. 2469, 8242
Alan, J. J. 636
Alan, M. N. 1329
Albagoury, M. E. 366
Alban, E. K. 546, 2866
Albano, D. J. 987
Albegov, R. B. 6892, 6893
Alberghina, O. 502
Albersheim, P. 3705
Albert, G. 2203

Albertsheim, P. 3705 Albert, G. 2203 Albertini, A. 1806, 1851 Alborishvili, Ch. A. 4407 Albrecht, E. 3913 Albregts, E. E. 3785, 6695, 6699, 7528, 8747 Albrigo, L. G. 5571, 6354,

9099 Albuquerque, F. C. 691 Alcaraz, C. 3114, 6479 Aldwinckle, H. S. 5766 Alekhina, E. M. 5700 Alekhina, L. A. 3580

Alekhina, E. M. 5700 Alekhina, L. A. 3580 Alekov, N. S. 2676 Alekperov, G. A. 5115 Aleksandrov, F. A. 3830 Aleksandrova, L. S. 2881 Aleksanyan, D. S. 5487 Alekseeva, A. M. 8695 Alekseeva, A. 8345 Alekseeva, T. P. 8263

Alekseeva, T. P. Alexander, A. F. 6348 Alexander, A. G. 1632, 16 6449, 8251, 8252 Alexander, G. 2028 Alexander, K. E. F. 5659, 1632, 1648,

7263 Alexander, L. J. 8765 Alexander, M. 3 Alexander, M. M. 8745

Alexandri, A. 1689 Alferova, N. D. 1905 Alfieri, S. A., Jr. 2269, 2287, 3002, 7039 Alford, D. V. 1075 Ali, E. 349 Ali, H. 1619 Ali, M. bin M. 3663 Ali, N. 801, 802, 1481, 1482 Ali, S. 7344 Ali, S. 7344
Ali-Zade, M. A. 5289
Aliev, D. A. 6898
Alimova, L. N. 8968
Alimiazee, M. T. 1922, 58
Alipieva, M. 125
Alipieva, M. 125
Alipievi, F. K. 1106
Alkämper, J. 2092
Alkhazov, Yu. G. 3270
Allami Gazdaságok
Gvűmölcstermesztési 1922, 5862 Gyümölcstermesztési Szakbizottsága 3355 Allamuradov, S. 1304 Allan, P. 1516, 4822, 5590,

7164 Allanazarova, U. 5068 Allaway, W. G. 5265, 7727, 8736 Allen, E. F. 5470

Allen, E. F. 5470 Allen, M. 866 Allen, M. W. 686 Allen, P. 4300 Allen, P. G. 14, 1142, 5427 Allen, T. C. 5428 Alleweldt, G. 1080, 2720,

Alleweldt, G. 1080, 2720, 2721, 6759, 8568
Allington, P. 14
Allison, E. 5782
Allison, W. F. 8201
Almeida, C. R. M. De 15
Almeida, F. S. de 405
Almeida, F. S. de 405
Almeida, L. d'A. de 8671
Aloni, B. 2406
Alpat'ev, A. V. 5367
Alpi, A. 711 Alpat'ev, A. V. 5367 Alpi, A. 711 Alscher, R. G. 2779 Alston, F. A. 2539 Alston, F. H. 461 Altinyay, N. 4292 Alumot, E. 3152 Alvarado, R. R. 6434 Alvarenga, S. C. De 2036 Alvarez-García, L. A. 1593 Alvim, P. de T. 3186, 3255, 4843 Alwa K. R. 1281

Alwa, K. R. 1281 Aly, M. D. H. 4489

Aly, M. D. H. 4489 Alyanskaya, N. S. 4318 Amano, S. 7325 Amano, T. 6817 Amante, E. 9170 Amaral, S. F. Do 1617, 2466 Amen, R. J. 3497 Amenomori, H. 1525 Amer, M. A. 8595 Americanos, P. G. 6337 Amici, A. 1021, 3475 Amico, V. 6994 Amin. A. H. 799, 2396, 2397.

Amin, A. H. 799, 2396, 2397, 3134

3134
Amin, El S. 8280
Amin, H. D. 3210
Amin, M. H. 8210, 8250, 8259
Amin, S. M. 5222
Aminov, Kh. L. 8449
Amirdzhanov, A. G. 5823
Amirdzhanyan, A. 2649
Amma, A. T. 3648, 3733
Ampe, G. 4416, 4748
Amronesh J. D. 8135, 9139

Amponsah, J. D. 8135, 9139 Amponsah, J. D. 8135, 9139
Amri, J. 5663
Amsen, M. G. 2489
Amson, F. W. van 9186
Amuti, S. K. 602
Anadoliev, G. 2533
Anagnostakis, S. L. 7380
Anahosur, K. H. 1360
Anais, A. 6798
Anais, G. 5945, 6888, 6906

Anand, R. 2058 Anand, V. K. 2930, 4632 Anandaradzha, K. 7453 Ancherbak, S. P. 638 Ancheva, M. 6896 Andersen, D. A. 2446 Andersen, N. H. 7965 Andersen, O. 4073 Andersen, R. L. 4235 Anderson, A. J. 3705 Anderson, C. A. 3118, 3996 Anderson, G. A. 5477 Anderson, J. A. 347 Anderson, J. 469 Anderson, J. L. 2867 Anderson, J. N. 5287 Anderson, L. E. 2819 6008, 8725 2819, 3742, Anderson, W. B. Anderson, W. C. 4921 7656 Anderson, W. P. 1673, 3765, 3766 Andon, K. I. 1343 Andrade, A. M. de S. Andrade, L. J. 4056 André, L. 5370 André, M. 6107 52.62 Andreev, A. 4536, 4555, 6546, 6811, 8773 Andreeva, N. F. 5101, Andreeva, R. A. 7808 Andreeva, R. A. 7808°
Andresen, F. 4519
Andreucci, E. 717, 8113
Andrews, C. H. 6113
Andronova, L. M. 5538
Andryushchenko, D. P. 5715, 5741 Andryushchenko, V. K. 8288 Aneshansley, D. 5415 Anet, E. F. L. J. 988, 989 Anet, E. F. L. J. 988, 989 Angelov, T. 6664 Angelova, R. 8784 Angenot, L. 9060, 9061 Angkapradipta, P. 2463, 6422 Angmor, J. E. 3015 Anici, J. 2519 Anisimov, M. M. Anisimova, G. G. 2530 Anjaneyalu, Y. V. 3034 Anjaneyulu, A. 7766, 7767 Anpalov, V. A. 2698, 2699, 2700 Anstett, A. 7022 Antoliff, A. J. 552, 5140, 8527 Antipovič, D. 6273, 6274 Antognozzi, E. 2645, 7455, 8461 Antonenko, G. A. 2664, 5700 Antonenko, G. A. 2664, 5700 Antoni, H. 9264 Antonin, P. 2581, 2583 Antonio, J. P. San 4603, 5378 Antonov, Yu. P. 7640, 8623 Antonyan, A. S. 1123 Antonyan, L. K. 1883 Antoszewski, R. 5819, 7395, 8518 Antunes, E. J. 359 Anuforo, D. C. 4759 Anzalone, L., Jr. 8229 Aoba, T. 8891 Aoki, M. 2782, 2870 Aoki, N. 7419 Aoki, S. 6592 Apablaza, G. E. 642 Apacible, A. R. 1555 Apelbaum, A. 2065, 2066, 3154, 4511 Appachu, K. M. 8145 Appalanarasiah, P. 1636 Appelgren, M. 7890 Applebaum, S. W. 182, 1490 Applebo, J. E. 6211 Appleton, J. 1260 Applewhite, P. B. 4145, 6235 Apruda, P. I. 1089 Apsamatova, R. A. 2334 Aradski, M. 2593, 7365 Aragaki, M. 7876 Arai, K. 6826 Aragaki, M. 7876 Arai, K. 6826 Araki, C. 6592 Arangelov, A. P. 3481 Arasimovich, G. A. 1929, 8566

Aratani, T. 5498

Aravindakshan, M. 7172 Archibald, W. A. 9 Arcia, A. 3775 Arditti, J. 4683, 5458, 6207, 6209, 7029 Arendt, N. K. 7438 Arene, E. O. 786 Arens, T. 9171 Arene, E. O. 766 Arens, T. 9171 Arenstein, Z. 3583 Arevalo, A. R. 8207 Arévalo, R. A. 9237, 9238 Arias de Estrada, T. Arinshtein, A. I. 1411, 7983 Arisumi, T. 299 Armbrüster, J. 8879 Armbrüster, J. 8879
Armero, T. 2639, 6631
Armstrong, W. 1233
Arnal, C. 5491
Arnaud, F. 6412
Arneson, P. A. 5766
Arnold, C. E. 3484, 6652
Arnoux, M. 8454
Arora, J. S. 8161, 9173
Arora, N. D. 204
Arora, R. B. 1416
Arora, R. S. 5434 Arora, R. S. 5434
Arora, S. K. 233
Arrivé, M. 8991
Arroyo, L. E. 8141
Arruda, H. V. 1617, 2466
Arthurton, P. A. J. 2854
Artlykhova, R. 2773
Arulrajah, T. 8749
Arumugam, R. 8569
Arutyunyan, R. G. 2589
Arvier, A. C. 1649, 1651
Arzee, T. 2201
Arzola, J. D. P. 2037, 2038
Asaf, R. 5058
Asahi, T. 218
Asai, N. 5460
Asanuma, K. 6000
Asare-Nyako, A. 8135, 9139
Asatani, M. 2190
Asatani, M. 2190
Asatani, G. Sh. 5119
Ascenso, J. C. 7184, 7186
Ascher, P. D. 5428, 8858
Asen, S. 723, 1344, 8877
Ashby, D. G. 455
Ashby, J. P. R. 3818
Ashihara, H. 1305, 4592
Ashour, W. A. 4489
Ashraf, H. 9235
Asi, A. A. 801, 802
Asif, M. I. 2091
Asjes, C. J. 2248, 2249, 2956, 2957, 6179, 6180, 8905
Askari, A. 5607, 5633, 8129
Askari, A. 5880
Aslanov, S. M. 3970, 8040
Aso, P. J. 370
Asomaning, E. J. A. 5608
Aspidova, Zh. V. 5173 Arora, R. S. 5434 Arora, S. K. 233 Aso, P. J. 370 Asomaning, E. J. A. 5608 Aspidova, Zh. V. 5173 Aspiras, A. B. 7171 Assaf, R. 1734 Assche, C. Van 6920, 8779, 8791 Assem, M. A. 630, 631, 652, 5222, 5905 Association Scientifique Internationale du Café 9172 9172
Atal, C. K. 7973
Atallah, M. 1081
Atanasov, A. T. 2569
Atanasov, Ya. 5117
Atanasov, Zh. 3952
Atanda, O. A. 3181, 4839
Ataullaev, N. A. 2773, 5962
Atchison, B. A. 5980
Atherton, J. G. 278
Atimoshoae, M. V. 3596 Atherton, J. G. 278
Atimoshoae, M. V. 3596
Atkin, C. L. 174
Atkin, D. R. 5569
Atkin, J. D. 5232, 5233
Atkins, C. A. 5895, 5896
Atkins, P. 702
Atsmon, D. 2005
Attaway, J. A. 4815, 4816
Attri, B. S. 7476
Attridge, T. H. 7733
Aubert, B. 1463, 2379, 3569, 4832

Audemard, H. 958 Augé, G. 716 Augustin, E. 2023, 3695 Augustin, P. 4457 Aulakh, B. S. 8552 Aulakh, K. S. 4573, 6106 Aulenbach, B. B. 3434 Aulenbach, B. B. 3434 Aung, L. H. 248 Aung Than 2898 Aurich, O. 2045 Auriol, J.-M. 1310, 1311, 6953 Ausland, O. 2916 Austen, V. C. 374 Austin, M. D. 1744, 6586 Austin, R. B. 124, 1150, 2009, 3767 3767 Austin, S. W. 5550 Australia, Bureau of Agricultural Economics 1721 Australia, Bureau of Sugar Experiment Stations 9219 Australia, CSIRO Division of Irrigation Research 550, 1133, 1466, 6480, 6523, 6769, 9074 Australia, Museum of Applied Arts and Sciences 4737 Australia, New South Wales Department of Agriculture 4296, 4782, 5385, 5600, 5693, 5882 Australia, Queensland Department of Primary Industries 7596, 8313, 9068, 9121 Australia, Sandy Trout Food Preservation Research Laboratory 755, 901, 1134, Laboratory 755, 901, 1134, 1460, 1529

Australia, Tatura Horticultural Research Station 450

Australia, Victoria Department of Agriculture 6518 Australia, Waite Agricultural Research Institute 3344, 3602, 3831, 4094, 6712
Austria, Höhere Bundeslehrund Versuchsanstalt für und versucnsanstaft für Gartenbau 114, 265, 347 Åvall, H. 115, 2738 Avants, J. K. 2883 Avellaneda, M. O. 7565 Averett, J. 2942 Averna, V. 2943 Avgelis, A. 4390, 4595 Avidzba, N. Sh. 7148 Avieli, A. 3678 Avieli, E. 3786 Avieli, E. 3786 Aviomnova, L. E. 3112, 3113 Awad, M. 1525 Awasthi, R. P. 807, 1509 Awatramani, N. A. 9164, 9165 Ayensu, E. S. 4680 Ayers, G. W. 4426, 5920 Aynehchi, Y. 1450 Ayonoadu, U. W. U. 201 2014, 5973, 5975 2011, Ayolosadi, C. W. O. 2011, 2014, 5973, 5975

Ayyasamy, M. K. 5223

Azad, K. C. 930

Azarova, V. N. 6534

Azeri, T. 8077

Aziz, A. B. A. 2438, 2439, 2440, 3500, 5055

Azizi, H. 8246

Azzi, G. M. 4884

Azzony, M. El 1479

B., B. C. 854

B., D. N. B. 854

Baarends, J. L. 8339

Babitt, J. K. 8799

Babii, V. S. 2585

Babilodze, N. S. 3276

Babrikov, D. 5826, 5831, 5843, 5844

Babu, C. N. 416, 1618, 7250

Babu, H. 9101

Babu, M. R. 7078 Babu, M. R. 7078 Babu, P. C. S. 838 Babu, P. C. S. 447, 670, 2481 Babuk, V. I. 945

Babushkin, L. N. 7804 Bachelier, J.-C. 5853 Bachinger, K. 6607 Bachthaler, E. 7033 Bachy, A. 8164 Back, A. 1978 Back, N. 4909 Badr, S. A. 9113 Baecke, N. De 3641 Baek, H. K. 674 Baer, H. 7689 Baër, J. 7898 Bagdasaryan, A. Z. 5952 Baggett, J. R. 1992 Baggiolini, M. 2529, 2581, 3587 Bagnard, C. 5491 Bagni, N. 5175 Bagshaw, R. 5308, 5309 Baicu, T. 8482
Baier, S. 6290, 9027
Baijal, M. 9134
Bailey, C. 3374 Bailey, C. 3374
Bailey, H. E. 773, 9048
Bailey, V. L. 773, 9048
Bailey, W. A. 276
Bailss, K. W. 871
Baines, R. C. 4787
Baisted, D. J. 5280
Bajaj, K. L. 5325
Bajaj, S. 6018
Bajaj, Y. P. S. 7074
Baipai, M. R. 6250
Bajpai, P. D. 1625
Bajpai, P. D. 1625
Bajpai, P. D. 5630, 9284
Bajwa, M. S. 493, 1592, 2713, 3144, 5665, 7075, 7422, 7425, 7982, 9281
Bakanidze, M. Sh. 3131
Baker, C. J. 3201, 4057, 4860, 4861, 8151
Baker, E. C. 1204, 4391
Baker, E. C. 1204, 4391 Baker, E. C. 1204, 4391 Baker, J. E. 4904, 5664 Baker, J. H. 469 Baker, J. J. 6497 Baker, K. F. 3316 Baker, L. R. 1197, 1198, 2006, 6018 6018
Baker, N. R. 4917
Baker, P. B. 2505, 3331, 7324
Baker, R. 714
Baker, S. A. 7100
Bakhchevanova, S. 4421, 4550
Bakhshi, J. C. 556, 589, 590, 2713, 3291, 8104, 8105, 9280
Bakhtsida K. E. 1467 Bakhtadze, K. E. Bakina, L. A. 763 Bal, A. K. 2833 Balachandran, A. 8157 Balanovskiř, V. A. 357 Balashov, T. N. 2050 Balasubrahmanyam, V. R. 8571 Balatková, V. 8873 Balázs, E. 6514 Balázs, K. 2671 Balbaa, S. I. 3049, 4756, 7099, 8006 Balcar, Z. 5513 Bald, J. G. 16 Baldacci, E. 5853 Baldanzi, G. 8671 Baldassari, T. 6513 Baldi, G. 8704 Baldini, E. 977, 2531, 4267, 5028, 5029, 5030, 5143, 5704
Baldry, C. W. 8248
Baldry, P. 7839
Balea, A. 8478
Balerdi, C. F. 3570, 5841
Balevski, A. 7372
Balina, N. V. 7722
Balint, J. 4173
Ball, E. A. 4683, 6207, 7029
Ballantyne, B. 1225
Ballard, A. L. 4994
Ballard, J. 7334
Ballard, J. K. 1709
Ballatori, E. 7436 5704

Author Index Ballinger, W. E. 1019, 1065, 4319, 6690, 7517 4319, 6690, 7517 Ballio, A. 4928 Balloni, W. 2701 Balobin, V. N. 5723 Baloch, G. M. 9158 Baltovski, B. 1882 Balut, F. F. 9170 Balwinder Singh Aulakh 8552 Balzaryavichyus, P. Yu. 1141 Balkaryavichyus, P. Yu. 1141
Bamber, C. M. 8342
Bammi, R. K. 6295, 6297
Banage, W. B. 387
Bandeen, J. D. 3660
Bandoni, A. C. 3964
Bandoni, A. L. 2348, 9043
Bandopadhyay, M. 346
Bandyukova, V. A. 3340, 5525
Banegas, R. 3699
Banerjee, A. B. 9033
Banerjee, B. 8010
Banerji, J. 6310
Banerji, J. 6310
Bangash, N. A. 7761
Bangerth, F. 2602, 2603, 3432
Banguera, R. L. 3189
Banham, F. L. 1001
Bánki, G. 1545 Banguera, R. L. 3189
Banham, F. L. 1001
Bánki, G. 1545
Banko, T. J. 5456
Banks, R. A. 3906
Bannier, L. J. 2927
Bannon, J. J. 4535
Banse, H.-J. 5847
Banthorpe, D. V. 760, 4747, 6319 6319
Banu, K. 5495
Baqi, A. 507
Bar-Akiva, A. 864, 2384, 6479
Bar-Joseph, M. 5560
Bar-Yossef, M. 3999
Baraer, J. 8683
Barak, D. 3366
Parrlet M. 7. 665 6319 Barak, D. 3366 Barakat, M. Z. 605 Baraldi, G. 457 Baran, E. I. 97 Baranov, E. I. 1103 Baranova, A. A. 5318 Baranowski, A. 4882 Baratta, B. 817 Barbakadze, T. P. 7163 Baratta, B. 817
Barbakadze, T. P. 7163
Barbee, D. G. 8294
Barben, B. 909
Barben, E. 1712, 2562
Barber, G. A. 647
Barber, S. A. 4561
Barbin, D. 3157
Barbora, B. C. 4896, 5661
Barden, J. A. 3413
Barden, J. A. 3413
Barden, J. E. 2924, 4621
Bareketh, M. 3801, 3993
Barendse, G. W. M. 1339
Bargioni, G. 499
Barkai-Golan, R. 6948
Barker, A. V. 606, 632, 1063, 1950, 1957, 4424, 8949
Barker, A. W. 181, 5241
Barker, K. R. 2877
Barker, W. G. 121
Barkley, G. M. 6868
Barkouki, M. El 789, 2167, 2168, 2414 Barkouki, M. El 2168, 2414
Barksdale, T. H. 2107
Barkus, B. 1478
Barlahan, A. V. 2074
Barma, B. 7661
Barmore, C. R. 4817
Barna, B. 2792
Barna, J. 7591
Barnas, J. 7591
Barnas, B. 5535 Barna, J. 7591
Barnabás, B. 5535
Barnard, C. J. 6326
Barnes, G. L. 5057, 6805
Barnes, M. F. 1236
Baroova, S. R. 6064
Barr, W. 3925
Barralis, G. 5840
Barriera, M. 3728, 8603
Barrera G., J. L. 5794
Barrett, G. 2127
Barrett, J. N. 7083
Barrett, R. E. 1322
Barrientos, F. 8501

Barrios G., A. 7699, 7700, 8679 Barrios, J. R. 8022 Barritt, B. H. 539, 8504 Barroso, M. A. T. 1510 Barritt, B. H. 539, 8504
Barroso, M. A. T. 1510
Barry, J. R. 626
Barshi, G. 9114
Barskaya, E. I. 7722
Bartaria, A. M. 6445
Bartels, E. A. 1917
Bartha, J. 7371, 7384
Bartlett, D. 1955
Bărtoi, H. 7426
Bartoshuk, L. M. 4400
Bartz, J. A. 2873, 6936
Barua, A. K. S. 3030
Barua, D. N. 9277
Baruah, A. K. S. 7974
Baruel, J. 8788
Barz, W. 6009
Basa, S. C. 6310
Basargin, L. D. 1431
Basari, T. 4079
Basco, H. J. 5655
Basiaux, P. 6698
Basiouny, F. M. 3997
Basler, E. 7712
Basler, P. 4353, 5836
Basnitzky, Y. 3633
Basoccu, L. 543, 4538, 5820
Bassova, A. I. 3544
Bassi, M. 1169
Bassiouni, M. 605
Bassir, O. 2351
Basso, M. 4269 Bassino, J. P. 6069
Bassiouni, M. 605
Bassir, O. 2351
Basso, M. 4269
Basson, W. D. 3302
Bastdorff, R. S. 635
Bastiaansen, H. 4419
Bastin, M. 130, 3630
Basu, R. N. 190, 3219, 3226, 3233, 3236, 3239, 8678
Basu, S. K. 4831, 9125
Basu, S. L. 3974
Basuki, R. 4079, 8180, 9210
Batal, K. M. 2128
Bateman, D. F. 4619, 8688
Batemp, C. B. 4990
Batey, T. 3299
Bathala, M. S. 2349
Báthory, M. 4775
Batinica, J. 6660
Batiste, W. C. 1761
Batra, R. C. 5562, 5583
Batson, F. 7887
Batson, W. E., Jr. 8780
Batta, A. K. 4753
Batyr, R. A. 908, 5741
Batyrkhanov, Sh. G. 4999
Baudewiin I. 4241 Batta, A. K. 4753
Battyr, R. A. 908, 5741
Batyrkhanov, Sh. G. 4999
Baudewijn, J. 4241
Bauduin, H. 3059
Bauer, D. H. 7724
Bauer, R. 8487
Bauerle, W. L. 3809, 4557, 4566, 4576, 4577, 5205, 5363, 5364, 6063
Bauerová, O. 9013
Bault, A. 7740
Baumann, E. 5161
Baumann, G. 471, 4948
Baumann, T. W. 4863, 4867
Baumgardner, R. A. 1830, 2787, 5777
Baur, A. H. 967, 2590, 6591
Baur, J. R. 6855
Bavel, C. H. M. Van 4
Baxter, L. W., Jr. 2981, 2995
Bayoumi, M. 8210
Bayoumi, N. M. 8250 Bayoumi, N. M. 8250 Bazgan, C. 7482 Bazzocchi, R. 540, 5029 Beal, J. L. 2349, 2370, 2372, 6320 Bean, W. J. 8283 Beard, J. B. 301 Beattie, B. B. 3428, 5750, 8410 Beaudin-Dufour, D. 1588 Beavers, D. V. 2618, 3449 Bech, J. 4596 Beck, G. R. 2284 Bečka, J. 1786, 5003 Becker, H. 1930, 7553

Becker, R. F. 1149 Becker, N. F. 1149 Becker, V. 1679 Becker, W. M. 4480 Beckham, L. S. 5238 Beckman, C. H. 2120, 4571, 4572 Beczner, L. 3703 Bedding, A. J. 877 Bedford, E. C. G. 9096 Bediashvili, S. L. 66 Bediord, E. C. G. 9096
Bediashvili, S. L. 66
Beel, E. 4679
Beeman, C. H. 4994
Beernaert, H. 9107
Beetz, K. J. 2723
Beevers, H. 4, 4395, 7690
Beevers, L. 3753
Beg, M. N. 8238
Begazo, J. C. E. O. 3192
Begbie, R. 203
Begtrup, J. 6208
Béguin, J. M. 4923
Behar, D. S. 6861
Behari, J. R. 3071
Behera, S. N. 8739
Behnke, H.-D. 1700
Behrens, R. 3304, 5283
Beijersbergen, J. C. M. 736, 7015 7015 Beijersbergen, J. C. M. 296 Beinik, A. I. 8566 Beirne, B. P. 2501, 5861 Beirne, B. P. 2501, 5861 Beisler, J. 4774 Beitler, G. A. 3686 Beitz, H. 326, 2320, 7988 Bekhtereva, M. N. 7738 Bekov, E. M. 8544 Belcher, R. M. 6450 Belej, J. 2049 Belgium, Centre de Recherches Agronomiques de l'État
2517, 4363, 6691

Belgium, Comité National pour
l'Étude de la Culture
Fruitière 902

Belgium, Government Agricultural Research Centre 4925, 5906, 6272, 8835 Belgium, Institut pour l'Encouragement de la Recherche Scientifique dans l'Industrie et l'Agriculture 1131, 4942, 5071, 5386 Belgium, Proefbedrijf der Noorderkempen 1060, 5148, 8578
Belgium, Station Provinciale de Recherches Scientifiques Agricoles et Viticoles 3559 Belgium, Tuinbouwstichting Hageland-Zuiderkempen, Rillar 4297, 6503 Belgium, Westvlaamse Proeftuin, Beitem-Rumbeke 1028 Belgraver, W. 5395, 6968 Belić, M. V. 2620 Belicovschi, A. 7566 Belicovschi, A. 7566 Belik, V. F. 5881 Belikov, P. S. 5984 Belin, J.-M. 5876 Belkov, V. L. 5864 Belli, G. 1117, 5853 Bellia, F. 3364 Bellini, E. 2419, 3167, 3460, 3461, 3462, 3463, 3464, 6625 6625 6625 Bellis, E. 864, 1615 Beloborodova, G. G. 8350 Belobrov, A. V. 935 Belokhonov, V. I. 2547 Belousov, M. K. 2547 Belousov, V. S. 1834 Belousova, L. A. 6074 Belova, I. A. 621 Belousov, V. S. 1834
Belousova, L. A. 6074
Belova, I. A. 621
Belsten, J. C. 2326
Belyaeva, T. G. 4299
Ben-Dov, Y. 4004
Ben-Jaacov, J. 2184
Ben-Shalom, I. 3999
Ben-Yehoshua, S. 1811, 1978, 2406, 2636, 4012 2406, 2636, 4012 Benbasat, E. 3037

Bencivelli, A. 5734 Benda, G. T. A. 6441, 8225 Benedek, M. 246 Benedek, M. 246
Benedict, R. H. 595
Benedict, W. G. 4575, 8816
Beneš, K. 7692
Beníček, J. 5508
Benizé, N. 6395
Benik, E. 102
Bennati, E. 9045
Benne, R. 1891
Bennet, R. F. 4584
Bennett, A. H. 2646
Bennett, F. D. 1640, 2469, 4430, 5654, 8238 Bennett, F. D. 1640, 2469, 4430, 5654, 8238
Bennett, J. E. 6228
Bennett, J. E. 6228
Bennett, M. 547
Bennoit, F. 3555, 4333, 5097, 5910, 6698, 7531, 7647, 8519, 8520, 8521, 8522, 8523, 8646, 8802
Bensink, J. 1973
Benson, B. L. 2077
Benson, N. R. 961, 8373
Benson, R. J. 9130
Bentley, H. 648
Bentley, H. 648
Bentley, K. 186
Benveniste, P. 1960, 2034
Benzing, D. H. 305
Beraha, L. 8515 Beraha, L. 8515 Beramis, M. 4568 Beránek, F. 341, 6273, 6274, 7993 Beranek, F. 341, 62/3, 62/4, 7993
Berard, D. F. 5981
Berbeck, S. 3978
Berbert, P. R. F. 3186
Berbert, P. R. F. 4849
Bercks, R. 3581, 7570
Berenguer, T. 508
Berényi, M. 6897, 7778
Berestetskiĭ, O. A. 6551
Berestova, G. N. 4299
Berezovskiĭ, K. K. 6864
Berg, L. Van den 1148, 7753
Berg, W. 2308
Bergamin F., H. 3199
Bergamini, A. 71
Berge, H. 878
Bergen, J. van 4968
Bergen, W. G. 6018
Bergendahl, P.-O. 7337
Berger, A. 57 Bergendahl, P.-O. 7337 Berger, A. 57 Berger, R. D. 2144 Berger, W.-G. 5879 Bergeson, G. B. 244 Bergman, B. H. H. 2958 Bergman, W. 6376 Bergman, B. H. H. 2958
Bergmann, W. 6276
Berkowitz, J. E. 1665
Bermidez, M. E. 4056
Bernal, G. 9190
Bernardi, J. B. 4532
Bernáth, J. 6315
Bernatskaya, M. L. 7728, 8721
Berner, C. 1553
Bernier, C. C. 642
Bernier, G. 3010, 5491
Bernstein, L. 2161
Bernstein, Z. 3594
Berry, J. W., Jr. 4551, 4560, 5204
Berry, M. I. 9041 Berry, M. I. 9041 Berry, S. Z. 2862 Bertele, B. 1917 Bertrand, D. E. 592, 2729 Besemer, S. T. 5682 Beskaravaĭnaya, M. A. 3928 3928
Beslaneev, V. D. 7775
Besombes, J. P. 4877, 5639
Besse, J. 9141
Besson-Guyard, M. 1656
Best, D. J. 6595
Betancourt, L. 5206, 5302
Betbeder-Matibet, M. 406
Bethell, R. S. 1761
Betlach, J. 2840
Betteridge R. 7716 Betteridge, B. 77 Bettner, L. 6502 Betto, E. 1169 Beuzenberg, M. P. 1392, 7903

Beuzenberg, W. P. 5433 Bevan, R. C. 5144 Bewley, J. D. 3644 Beyer, E. M., Jr. 223, 2824, 5968 Beynon, K. I. 615, 7302 Beyries, A. 4545, 5329 Bezbaruah, H. P. 6456 Bezukladnikova, N. F. Bhadauria, A. S. 330 Bhagat, S. D. 3030, 7974 Bhagchandani, P. M. 3782, 6874 Bhakuni, D. S. 1451, 2362, 4760
Bhalla, O. P. 7476
Bhambota, J. R. 3292, 5629, 7425, 8075 Bhan, S. 8979 Bhandari, M. C. Bhandari, M. M. Bhandari, Y. M. Bhandary, K. R. 8011 234 Bhandary, K. R. 814
Bhargava, K. K. 9005
Bhaskaran, T. L. 6443, 9227
Bhaskarannair, V. K. 8186
Bhat, K. S. 9156
Bhat, N. T. 3176
Bhat, P. K. 1582
Bhatia, G. N. 4893
Bhatia, I. S. 5325, 7754, 7972
Bhatt, B. 9059
Bhatt, D. C. 5494
Bhatt, J. G. 3085
Bhatt, M. G. 2332
Bhattacharyya, G. C. 8128
Bhattacharyya, K. C. 3208 814 Bhattacharyya, G. C. 8128 Bhattacharyya, K. C. 3208 Bhatti, D. S. 4095 Bhide, V. P. 7572 Bhoj, R. L. 8202 Bhojwani, S. S. 2202 Bhujbal, B. G. 1124, 8160, 8570 8570
Bhullar, B. S. 3656, 5325
Biamonte, R. L. 2289
Bianco, V. V. 5182, 5925,
7649, 8605
Bibb, P. C. 284
Bible, B. 3674
Bickford, E. D. 8307
Bid, N. N. 665, 2492, 3217,
3220
Bidabé R. 41, 42 Bickrord, E. D. 8307

Bid, N. N. 665, 2492, 3217, 3220

Bidabé, B. 41, 42

Biddulph, O. 4

Bidwell, R. G. S. 1219

Biehen, W. L. 6919

Bielenin, A. 7382

Bielenin, S. M. 7491

Bielorai, H. 3799

Bierhuizen, J. F. 8611

Biernaux, J. 6942

Bierner, M. W. 2942

Bieske, G. C. 418, 1627

Bigger, M. 1551

Biggs, D. R. 7719

Biggs, R. H. 3146, 3997, 4817

Bigotti, P. G. 607

Bik, R. A. 745, 748, 2294

Bilderback, D. E. 3856

Bilets'ka, D. K. 940

Bilgrami, R. S. 8110

Bilick, N. 2520

Billich, N. 2520

Billing, E. 6519

Billing, E. 6519

Billing, A. 2185

Bingham, S. W. 5443

Bindra, O. S. 5582, 8760

Bing, A. 2185

Bingham, S. W. 5443

Bini, G. 2419, 5789

Binns, E. S. 4602, 7838

Binyamini, N. 2377

Biondi, G. 897

Biran, I. 4653, 7949, 8888, 8889, 8890

Bird Piñero, J. 1611

Birgis, D. S. 6903

Birmingham, B. C. 2820

Birta, I. 7809

Bischev, D. W. 2961 Birta, I. 7809 Biscoe, P. V. 2039 Bishay, D. W. 8961

Bishop, J. C. 5214 Bishop, R. F. 2081 Bisiach, M. 474, 1215 Bismuth, E. 8593 Bisset, N. G. 6316, 6317, 9060 Biswal, U. C. 8969 Biswas, A. K. 855 Biswas, R. C. 1437, 1440, 1441 1441 Bitó, M. 3628 Bitters, W. P. 794, 4787 Bittner, M. 8960 Bivins, J. L. 2921, 6226, 6227 Bjerkestand, E. 2916 Björklund, B. 2971 Björkman, R. 2317 Bjurman, B. 2489, 8503 Black, M. 5687 Black, S. M. 8592 Blackman, G. E. 225, 2032, Blackman, G. E. 225, 2032, 7716
Bladon, P. 1355
Blagonravova, L. N. 741, 3418
Blaha, J. 5016, 7557
Blake, C. D. 1231, 2484
Blake, J. 7026
Blake, R. C. 3536
Blakely, J. A. 2318
Blakely, J. A. 2318
Blakely, J. M. 2073
Blakely, N. 1362, 5429
Blakeman, J. P. 7615
Blanchard, M. 7116
Blanchard, M. 7116
Blanchard, P. 1906, 8535
Blanco, H. G. 394, 3200; 7192
Blank, H.-G. 4224
Blaricom, L. O. Van 1830, 5777 Blackman, G. E. 225, 2032, 5777
Blasco L., M. 7181
Blasse, W. 1711, 8285, 8441
Blassinski, J. 2076
Blazquez, C. H. 6043
Bleier, W. 5486
Blenda, V. P. 5748
Bliev, M. I. 8345
Blinov, V. A. 5699
Blisov, E. E. 5699
Bliss, F. A. 4484
Blixt, S. 3884
Block, J. H. 2988 Block, J. H. 2988 Blommaert, K. L. J. 2324, 6234 Blommers, J. 7522 Blondel, L. 804, 3155, 9077 Bloom, J. R. 1822 Blumenfeld, A. 2378, 2885, 3093 Blumenfeld, T. 3935 Bø, A. 4429 Boa, W. 8635 Boardman, N. K. 185, 2026, Boardman, N. K. 185, 2026, 2072
Boateng, B. D. 8134
Bobbio, F. O. 7273
Bobbio, P. A. 7273
Bobbio, P. A. 7273
Bobeva, M. 6684
Boboshevska, D. 6793, 6794
Bobryakova, T. G. 4306
Boch, R. 3529
Bocharnikova, N. M. 4299
Bockstaele, L. 167, 1160, 4416, 4748, 8672
Bockstedt, W. 1005
Bodi, I. 7482
Boe, A. A. 689, 5456
Boeker, P. 8916
Boelema, B. H. 4503
Boer, J. H. De 2242, 4656
Boer, J. H. De 2242, 4656
Boer, W. Den 1971, 2247
Boerema, G. H. 3317
Boertje, G. A. 7628
Boetzelaer, G. J. van 8411
Bogacheva, N. G. 8018
Bogatov, N. P. 5045, 5788
Bogdan, M. 7373, 8413
Bogdanov, Yu. F. 2948
Boggiatto, A. J. 8502
Bognár, S. 6571, 6875
Bogomolova, N. N. 920
Bohländer, H. 6221
Böhme, L. 2160 2072

Böhmer, R. G. 3302 Bohn, G. W. 4443, 5221 Bohn, R. 2497 Boili, K. 2497 Boichev, A. 1102, 3575 Boiko, G. N. 2546, 2591 Boikov, A. 2176, 5397 Boikov, D. 7472 Boĭtsova, A. V. 959, 4225, 5004 Bojić, M. 6550 Boyle, M. 6550 Bokelmann, G. S. 9012 Bokhari, M. H. 6988, 6989 Bokhorst, D. 5683 Bokuchava, M. A. 5875 Bokura, T. 7355 Bolay, A. 1115, 2614, 3437, 6643, 6644 6643, 6644 Boldyrev, M. I. 2582, Boling, J. C. 5196 Bolkvadze, V. I. 6466 Boll, W. G. 2805 Bollinger, J. 5342 Bolt, L. C. 8111 Bolton, A. T. 158 Bolwyn, B. 7707 Bömeke, H. 3520 Bompeix, G. 4227 Bonaszewski, K. 8532 2582, 2688 Bompeix, G. 4227 Bonaszewski, K. 8532 Bond, I. P. 4253 Bond, J. 7035 Bondarev, I. E. 2563 Bondarev, V. P. 581, 6723 Bondoux, P. 41, 42, 4227 Bonduryanskaya, B. I. 1732 Bondzhukov, D. 1096, 2718, 8537 Bonetti, S. 5126, 6730 Bongiorno, A. 6548 Bonini, V. 3819 Bonini, V. 3012 Boninsegna, J. A. 3804 Bonneau, G. 4278 Bonnemain, J.-L. 7726, 8639 Bonnemaison, L. 2578, 2579 Bonney, D. 906 Bonnyai, J. 1341, 2214, 7896 Bono, A. De 816, 5591, 7165, 7166 Bontovits, L. 6107 Bontovits, L. 6107
Bonuccelli, A. 287, 297
Boodley, J. W. 8861
Boodt, M. De 5419
Boodt, M. de 7291
Booher, L. J. 8299
Boon, J. van der 2947
Boonnitee, A. 77
Boonsirat, C. 9208
Boonstra, J. J. 2169
Boontjes, J. 5427, 7902
Boos, G. V. 621, 1941, 4464, 5158 5158 S158
Booster, D. E. 8500
Booth, R. H. 664, 4147
Boothroyd, C. W. 1105
Bootsma, J. H. 8361
Bopaiah, M. G. 5555
Bopearatchy, R. N. 5662, Bopp, M. 3942, 7074 Borax Consolidated Ltd. Bopp, M. 3942, 7074
Borax Consolidated Ltd. 678
Bordia, N. S. 8616
Bordia, P. C. 231
Borecka, H. 6707
Borecki, Z. 6707, 7382
Borges F., O. L. 9127
Borges, J. M. 1554, 4050
Borghi, B. 2781
Borisov, A. S. 6739
Borisova, T. A. 6857
Borkar, D. H. 1475
Bornar, Z. 611, 613, 1165
Borner, H.-G. 1930
Börner, T. 5407
Bornman, C. H. 1468, 1471
Borodulina, F. Z. 6572
Borsani, O. 1826
Borthwick, H. 5687
Borys, M. W. 6829
Bos, L. 1693, 7947
Bosco, G. F. Del 818, 7442
Bose, E. 5022
Bose, P. K. 9235
Bose, S. 5334, 8010 6780 Bose, T. K. 314, 5677, 8840 Boshnakov, P. 4379 Bosi, A. 61, 5028 Boskou, D. G. 253 Boskovic, P. 2966, 7915 Bosley, P. R., Sr. 6223 Bosley, R. 6223 Bosse, G. 720, 2215, 2225, 2946, 6964 Bostian, B. 7390 Boswell, S. B. 3992, 4783, 5554, 6341 5554, 6341
Bottalico, A. 5353
Böttcher, H. 2090
Böttger, M. 1155
Boubals, D. 5853
Bouco, L. 6758
Boudet, A. 4163
Boudreau, G. W. 3589
Bouhot, D. 9109
Bouillon, G. 8848
Bould, C. 881, 1860, 7368, 8375 8375 Boulter, D. 255, 2046, 4493, 7725 Boulware, M. A. Bouman, F. 7941 Bouquet, A. 1428 Bourbouloux, A. 7726 Bourdeaut, J. 1524, 5551 Bourgeois, M. 8601 Bourgin, J.-P. 4146 Bouron, H. 4138, 5680 Bourque, P. 4684 Bourzeix, M. 3601 Bousquet, J. F. 8601 Boutin, D. 8165 Bovey, R. 5128, 5853 Bowe, R. 2160 Bowen, G. D. 6479 7726 Bourbouloux, A. Bowe, R. 2160
Bowen, G. D. 6479
Bowen, J. E. 1643, 4101, 4102, 8217, 8218
Bowers, S. A. 5237
Bowman, G. E. 678, 3296
Bowman, J. J. 6855
Bowmer, K. H. 6543
Bowyer, J. W. 278
Box, C. O. 4657
Boxma, R. 2994
Boxus, P. 6698
Boyarkina, I. S. 306 Boyarkina, I. S. Boyce, D. S. 4433 Boyce, J. P. 427, 9263 Boylee, J. P. 427, 9263 Bozhinova-Boneva, I. 1120, 6716, 7548 6/16, 7348 Bozhinova, I. 5109, 7552 Bozhkov, I. 3796 Brack, C. E. 1038 Bradbeer, J. W. 5986, 6850, 8448 Braddock, R. J. 806 Bradley, G. A. 1204, 3339, Bradley, G. A. 1204, 3339, 4391

Bradley, M. R. 1261

Bradley, M. V. 4261

Bradley, M. V. 4261

Bradt, O. A. 7558

Bradu, N. V. 4293

Brady, I. R. 8014, 8015

Brady, N. C. 3

Braga, J. M. 172, 4471

Bragt, J. van 8907

Braikov, D. 5831, 5843, 5844

Brain, K. 7415

Brain, K. R. 3088

Bramlage, W. J. 976, 2691

Bramley, P. M. 2898

Bramwell, A. F. 2326

Branas, J. 5828

Brandes, D. 3697, 8671

Brandis, A. V. 2198

Brandscheid, M. 1917

Brandt, R. D. 2034

Branson, R. L. 2376, 6139

Branson, R. L. 2376, 6139 4391 Branec, S. 3390
Branson, R. L. 2376, 6139
Branzanti, E. C. 6623
Brar, J. S. 3671, 3690, 7666
Brasher, E. P. 3793
Bratt, P. M. 6085
Braumiller, T. 2468
Braum, A. J. 8490
Braun, H. E. 1173
Braunger, J. 8311
Bravdo, B. 1734, 1925, 2553

Campo, S. A. 7121

Braverman, S. W. 6194 Brazee, R. D. 872 Brazil, Universidade de São Paulo 8934 Brazil, Universidade Federal de Viçosa 8671 Brazil, Universidade Federal Rural do Rio de Janeiro 4911 Brčák, J. 4984, 7910 Breaux, R. D. 4883 Bredell, G. S. 6326 Bredmose, N. 3794, 3898, Bredmose, N. 3794, 3898, 4675
Breece, J. 1326
Breece, J. 1326
Breece, W. M. 8668, 8669
Bregadze, A. G. 513
Breider, H. 1932
Brendler, R. A. 3014
Brennan, E. 8681
Brennan, E. 1209, 6841
Brennan, E. 1209, 6841
Brereton, A. J. 8308
Bressani, R. 7200
Brewbaker, J. L. 2435
Brewer, R. F. 5550
Brewerton, H. V. 480
Brewster, L. C. 5576
Brewerton, H. V. 480
Brian, P. W. 6122
Bridle, P. 58
Briggs, J. B. 3872, 3875, 4663
Briggs, J. R. 1366
Briggs, W. R. 1673
Bringhurst, R. S. 8501
Bringh, N. V. 2373, 3090
Brinkmann, H. 7639
Briski, L. 6558
Britskii, A. S. 1733
Brocke, W. v. 9051
Brodrick, H. T. 8163, 8171
Broertjes, C. 1352, 3903
Brogdon, J. L. 2827
Brondegaard, V. J. 8004
Brooks, A. V. 2216
Brooks, R. F. 3137
Brooks, R. M. 3356, 4156, 5670
Brosh, S. 3763, 3868
Brovenko, S. F. 2596 4675 Brosh, S. 3763, 3868 Brovenko, S. F. . 2596 Brown, A. E. 5755 Brown, B. I. 3094 Brown, D. A. L. 8134 Brown, E. D. 8563 Brown, E. G. 2806 Brown, G. E. 3907, 5574, 9099 9099 9099 Brown, G. K. 1515 Brown, G. N. 1398, 3927 Brown, G. R. 537 Brown, J. M. B. 7035 Brown, J. S. 1673 Brown, J. S. 1673
Brown, K. M. 911, 1077
Brown, L. 8614
Brown, L. C. 5303
Brown, L. N. 8299
Brown, N. A. C. 750, 6243
Brown, R. T. 7119
Brown, W. C. 2263
Brown, W. C. 2263
Brown, W. C. 372
Brownbridge, J. M. 4866
Browne, K. M. 229
Browning, G. 7195, 7196
Broyer, T. C. 173
Brózik, S. 3355
Bruce, K. R. 4494
Bruce, M. I. 8640
Brückbauer, H. 3582
Bruemmer, J. H. 9104
Brueske, C. H. 244
Bruey, S. N. 3512
Bruijn, J. 7259
Bruinsma, J. 7289
Bruinsma, J. 7289
Brulfert, J. 8926
Brummund, V. P. 557
Brun, P. 9077
Brun, P. 9077
Brun, R. 3554
Brundert, W. 2303, 2984, 6160
Brune, W. 1303
Bruneton, J. 2365
Bruning, K. 3012 Brown, K. M. 911, 1077

Brunner, T. 910, 6509 Bruter, I. M. 2532 Bruyn, J. W. de 8744 Bryan, H. H. 1282, 6073 Bryan, P. J. 7917 Brydon, P. J. 7917 Brydon, P. H. 7040 Brynza, A. I. 5935 Bubán, T. 4262, 5743, 8460 Bubarova, M. 2902, 7667, 8978 Bubentsov, S. T. 8653 Büblová, J. 7081 Bucci, B. T. 3050 Buchanan, D. W. 1827 Buchanan, G. F. 3308, 7164 Buchi, J. 6049 Buchmann, I. 5847 Buck, G. 3518, 3523 Buck, G. J. 7882 Bucke, C. 8248 Buckley, D. G. 335 Buckner, J. S. 7742 Buclon, F. 6698 Buczacki, S. T. 7655 Budanova, V. I. 637, 1205, 8677 Buddenhagen, I. W. 2435 Budowski, P. 4005 Bueso, C. 1538 Bugala, W. 3906 Bugarčić, V. 3442, 6541, 6555 Bugaret, Y. 8560, 8561 Buiatti, M. 711 Buitelaar, K. 2858, 7774 Buitendag, C. H. 4003, 4804, 6350 8677 6350 Bukatar', È. B. 7588 Bukina, N. V. 8045 Bukovac, M. J. 501, 1218, 2631, 2885, 3495, 5054, 6620, 7431 6350 6620, 7431 Bulatović, S. 2607, 6656 Buldini, F. 2494 Bulit, J. 8560, 8561, 9109 Buljko, M. 3508 Bull, R. M. 1637, 8236 Bull, T. A. 1645 Bulsink, A. J. 7016 Bulum, D. 3508 Bumbieris, M. 6756 Bünemann, G. 869, 4971, 4972, 7370, 7535, 8795, 8796 8796 8/96 Bunjamin 4078, 8273 Bunt, A. C. 3840, 8589 Bunt, J. A. 7948 Burbott, A. J. 1412, 3025 Burbutis, P. P. 4540 Burchill, R. T. 2576, 4985, 5751 Burchardt, F. 3858 Burden, R. S. 3719 Burdett, A. N. 1977, 6788 Burdine, H. W. 5916 Buren, J. P. van 2609 Buren, J. P. van 2609
Buren, J. P. van 2609
Buren, L. L. 4104
Bureš, V. 6275
Burešová-Pazdírková, B. 5506
Burg, S. P. 1235, 2059, 2065, 2066, 3335, 4508, 4511, 4512, 8630
Burgers, L. J. 6501
Burghardt, H. 2227, 6224
Burgis, D. S. 2110, 2860, 6144, 6890, 6914, 7797
Burkart, A. 4243
Burke, D. W. 181, 5241
Burmeister, P. 7058
Burmistrov, A. D. 2666
Burnett, W. M. 1290
Burns, E. E. 9089
Burns, E. E. 9089
Burns, E. M. 798, 3992, 4001, 4783, 5554, 5572
Burnside, K. R. 1885 4783, 5554, 5572 Burnside, K. R. 1885 Burov, D. 2024 Burrage, S. W. 3296 Burrell, J. W. K. 2326 Burridge, J. C. 7874 Burstall, S. W. 3906 Burton, C. 7481 Burton, G. W. 8309 Burtt, B. L. 20

Agronomiques 4031, 4786
Burwieck, J. 709
Burzo, I. 7373, 8413
Busch, L. V. 3325
Buschborn, U. 8426
Bushkova, L. N. 7614
Buslig, B. S. 4021, 4815 Buss, A. 8671 Bussell, W. T. 6 Bussler, W. 865 Butani, D. K. 2 6115, 7811 Busselt, W. 1, 6115, 7811
Bussler, W. 865
Butani, D. K. 2470, 9255
Butcher, D. N. 2129
Butenko, L. T. 1456
Butkov, A. Ya. 5068
Butler, I. 8768
Butler, K. P. 7657
Butrimova, L. V. 2544
Butruille, D. 7106
Butt, D. J. 4210
Butt, V. S. 5174
Butters, R. E. 718, 3842
Buttery, R. G. 5368
Button, J. 1468, 1471, 6243
Buttrose, M. S. 7594, 8573
Buvat, R. 1487
Bux, Q. 6886
Buxo, D. A. 8235
Buziashvili, I. Sh. B'yalik, L. M. 5874 Byast, T. H. 1051 Bychenko, I. I. 1915 Bychenko, N. I. 1915 Bychenko, N. I. 1883 Byers, R. E. 1026, 2006, 5776 Bykhovtsev, B. G. 1773 Bylov, V. N. 2918 Byrd, C. D. 6325 Byrde, R. J. W. 1747 Byther, R. S. 4097 Bziava, R. M. 3288 Bziava, S. M. 3109 C., R. 1658 C., R. 1658 Cabras, P. 3574 Caccia, R. 3587 Cadima, Z., A. 4843 Cafati K., C. R. 5234 Cahoon, G. A. 3591, 4335, 8456 8450 Cahun, O. 6515 Caia, R. 2097 Cain, J. C. 2558, 4196 Cain, J. D. 646 Cain, R. F. 2618, 3449 Cairaschi, E.-A. 1000
Cairns, T. 4001
Calabrese, F. 893, 1520, 5544
Calabrese, G. 6190
Calavan, E. C. 2387, 2391,
4001, 6328, 7141
Caldarola, M. 3984
Calderbank, A. 6905
Caldes, G. 6035
Caldogno, F. R. 8727, 8728 1000 Cairaschi, E.-A. Caldogno, F. R. 8727, 8728, Caldogno, F. R. 8727, 8728, 8729
Caldwell, T. H. 3299
Callow, J. A. 8662
Calmon, J. L. S. 3255
Calmaido, D. 4899, 7265, 9270
Calò, A. 586, 587, 591
Calot, L. 1212
Calvani, L. 6380
Calvert, A. 886
Calvert, D. V. 3119
Camacho, E. 1666
Camargo, A. P. de 8671
Camargo, L. de S. 5814
Camargo, P. N. 3197
Camargo, P. N. de 2018
Cambraia, J. 1303
Cameron, H. R. 7475
Cameron, J. W. 6329
Cammarano, P. 657
Campbell, A. I. 2528, 7375
Campbell, A. I. 2528, 7375
Campbell, J. E. 7408
Campbell, J. E. 7408
Campbell, J. E. 7408
Campbell, M. M. 1473, 1474, 1493, 1494, 1495
Campbell, W. F. 2012
Camper, N. D. 252, 3478
Campo, M. 3327 8729

Burundi, Institut des Sciences

Campos González, C. F. 1576 Canada, Agricultural Research Institute of Ontario 7488, 8314, 8836 Canada, British Columbia Department of Agriculture 3370, 3494, 3603, 3882, 6667 Canada, Conseil des Recherches Agricoles, Québec 4170, 5883, 6668 Canada, Department of Agriculture, Research Branch 2515, 2669, 2734, 2910 Canada, Lower Mainland Horticultural Improvement Association 8500 Canada, Ministère de Canada, Ministere de
l'Agriculture et de la
Colonisation, Québec 538,
1719, 1944, 2154
Canada, Nova Scotia Fruit Growers' Association 5694, 5695, 5696 Cañas Prieto, G. 4553 Cancel, L. E. 1587 Canevascini, V. 2710, 3587 Canfield, E. R. 6202 Canham A. F. 15 Canfield, E. R. 6202 Canham, A. E. 15 Cannata, F. 6380 Cannell, M. G. R. 4864 Cannon, J. M. 3791 Cantliffe, D. J. 634, 635, 1136, 1144, 2746, 4463, 4562, 1144, 2/46, 4463, 4562, 5967
Canvin, D. T. 7709
Capesius, I. 3942
Capó, B. G. 9245
Capoor, S. P. 6754, 9090
Caporale, G. 9055
Capot, J. 1569
Cardenas R.R. 5794
Cárdenas R.R. 5794
Cárdenas R., R. 5794
Cardinali, L. R. 4073
Cardini, F. 5726
Cardoso, A. P. da S. 8125
Carel 4027
Carel, P. 4026
Carew, D. P. 2345
Carl, K. P. 31, 2469, 5051
Carlier, G. 274, 7865
Carlson, R. F. 4178, 4182, 4220 5967 Carlson, W. C. 8687 Carlson, W. H. 1335, 1342, 2195, 2281, 2931, 6218, 8867 Carman, N. J. 2942, 6286 Carmona B., C. 6842 Carnegie, A. J. M. 7248, 7249, 8234, 8241, 9248 8234, 8241, 9248
Carnevali, A. A. 8103
Caron, J. E. A. 743
Carpena, O. 492, 508, 3114, 3139, 6479, 8088
Carpenter, E. W. 2088
Carpenter, B. 1513
Carpenter, P. N. 8496
Carpenter, P. N. 8496
Carpenter, W. J. 1335, 1342, 2195, 2281, 2284, 2931, 5477, 6218, 8867
Carr, A. H. 4593
Carr, D. J. 7283
Carr, L. H. 7043 Carr, D. J. 7283 Carr, L. H. 7043 Carrante, V. 2420 Carrera, C. J. M. 2420 Carrol, D. E. 7592 Carrol, V. J. 2125 Carroll, B. R. 9246 Carroll, B. R. 9246 Carroll, D. E., Jr. 1898 Carroll, J. W. 6132 Carruzze, C.-H. 5104 Cartechini, A. 564, 1521, 1818 Carter, A. R. 4612, 8941 Carter, G. A. 2041, 2042, 7193

Carter, G. E., Jr. 3478 Carter, G. H. 557, 597, 1081 Carter, H. B. 5178 Carter, J. L. 1647 Carter, M. V. 3437 Carter, R. D. 4021, 4815 Carter, R. L. 1036, 1845 Caruso, P. 2159, 5159 Carvalho, B. C. L. de 4467, 5235, 8671 Carvalho, B. C. L. de 4467, 5235, 8671
Carver, R. B. 1885
Cary, J. W. 6939
Cary, P. R. 1813, 3994, 6479
Cas, S. 2458, 6413
Casamayor, R. 4790
Case, M. W. 7759
Cash, J. N. 4391
Caspi, E. 9014
Cass, D. D. 323
Cassagne, C. 2829
Cassibba, L. 6379
Cassidy, J. C. 7603
Cassin, J. 3155
Castelfranco, P. A. 2779
Castel, W. S. 3102
Castro, F. R. O. 360
Castro, L. A. B. de 5328, 6113 Castro F., J. 4257
Castro, F. R. O. 360
Castro, L. A. B. de 5328, 6113
Castro M., J. R. 5794
Castro, P. R. C. 6934
Catalina, L. 8112, 9111, 9112
Catani, R. A. 3199
Câtara, A. 4792
Catarino, F. M. 8948
Cathey, H. M. 6152, 8946
Catzeflis, J. 468, 1739
Caudwerls, R. 3716, 7715
Caudwell, A. 5128, 5853
Cavazzutti, G. 3050
Cavé, A. 2365, 7103, 8026
Cave, P. R. 217
Cavicchi, G. S. 3780
Cayrol, J.-C. 1313, 3841
Cazelles, O. 6567
Čech, M. 7910
Cedillo S., N. 5794
Cegłowski, M. 946
Celebrar, P. R. 2437
Celestre, M. R. 2701, 3557, 3593 3593 Centrum voor Champignonteeltonderwijs 6120
Ceponis, M. J. 2756
Cercos, A. P. 9066
Cerff, R. 7980
Čermak, N. 2520
Cermeli L., M. 8459
Cermelli, M. S. M. 8626
Cerny, J. 5005
Cerrizuela, A. E. 8207
Cerrizuela, E. A. 9237, 9238
Červenka, K. 3412, 4992
Cesar, G. 6698
Cesari, A. 4326
Cessari, A. 1507
Ceustermans, N. 8646 6120 Cessari, A. 1507 Ceustermans, N. 8646 Cha, J. W. 1179 Chaban, I. P. 6549 Chaban, V. S. 5193, 6797 Chachin, K. 8800 Chacko, E. K. 3237, 3241, 7204, 7216 Chadha, K. C. 8621 Chadha, K. L. 4064 Chadwick, A. V. 6209 Chadwick, D. L. 5254 Chagas, C. M. 3634 Chailakhyan, M. Kh. 4645, 7738 7738 Chakladar, B. P. 3223 Chakrabarty, M. 1436 Chakraborty, D. P. 80 Chakravartee, J. 1661 Chakravartee, J. 1661 Chakravarti, B. P. 650 Chaikley, R. 3745 Chaikley, I. 1079 Chailleova, M. 1269, 6039, 8753 8753 Challen, D. I. 6632 Challice, J. S. 1839, 6646

Chaloupecky, V. 5428 Chalutz, E. 2141, 3152, 7152 Chaly, N. 5314 Chamberlain, J. D. 640, 1058 Chamberlain, J. D. 640 Chan, H. T., Jr. 9203 Chan, H. Y. 5643 Chan, K. W. 2459 Chan, P. Y. 7252 Chan, W. S. 4752 Chan, W. W. 5010 Chandapillai, M. M. 404076 4067. 4076 4076 Chander, M. S. 6295 Chandler, K. J. 1638 Chandler, R. F., Jr. 4 Chandorkar, K. R. 133 Chandra, A. 166, 7842 Chandra, G. R. 3720 Chandra, S. 204 Chandra, A. 166, /842
Chandra, G. R. 3720
Chandra, S. 204
Chandrassekera, L. B. 9207
Chandrassekharan, S. 2355
Chandy, L. 9022
Chaney, D. H. 7451
Chang, F. C. 8031
Chang, F. Y. 3660
Chang, H. 2467, 7239
Chang, H. Y. 5132
Chang, K. P. 373
Chang, N. C. 4644
Chang, P. 7220
Chang, P. J. M. 429
Chang, P. J. M. 429
Chang, S-T. 5382
Chang, V. C. S. 4082
Chang, Y. P. 8923
Chang, Y. P. 8923
Channabasavanna, G. P. 5495
Channon, A. G. 6083
Chanturiya, I. A. 6344
Chanukvadze, M. A. 7169
Chapelle, J.-P. 6321, 9020
Chaplin, M. H. 2657, 4233
Chapman, J. M. 6786, 6945
Chapman, J. M. 6786, 6945
Chapman, J. M. 6786, 6945
Chapman, J. S. 1628, 1631
Chapman, J. M. 6786, 6945
Chapman, J. S. 1628, 1631
Chapman, J. M. 6786, 6945
Chapman, H. 8074, 9091
Chari, M. S. 3727
Charles, W. B. 2133
Charlwood, B. V. 6319
Charmbury, H. B. 8857
Charrier, A. 1586, 6859
Chartier, P. 3296
Chassevent, F. 1585
Chatterjee, A. 1585
Chatterjee, A. 1452, 2355, 6310
Chatterjee, S. L297
Chatterjee, S. L297
Chatteriee, S. K. 1297 6310 Chatterjee, S. 1297 Chatterjee, S. K. 1297 Chaturvedi, H. C. 351, 8087 Chaudhary, R. C. 247 Chaudhuri, M. K. 4767 Chauhan, K. S. 234, 1273, 8616
Chauhan, M. G. 4757, 4758
Chauhan, R. S. 3210
Chavarria, C. P. L. 8647
Chavdarov, I. 7812
Chávez de Rivera, O. G. 557
Chebotaeva, T. F. 8443
Chebotar', E. I. 3513, 4293
Chebotareva, M. V. 3289
Chee, K. H. 1078
Chee Kok Chin 8792
Cheema, S. S. 7143
Chelombit'ko, V. A. 1429
Chemarin, N. G. 737, 753, 3909 8616 3909 Chen, C. C. Chen, C. F. Chen, C. H. Chen, C. P. Chen, C. T. 7239 3303 7220 7243 Chen, K. T. 6420 Chen, M. C Chen, M. H. 2388 Chen, S. H. 431 Chen, Y.-L. 2150 Chen, Y.-M. 4482, 9204 Chenchin, E. 9203 Cheng, I. H. 2952

Cheng, S. 8822 Cheng, S. S. 1303 Cheng, V. 2855 Cheng, Y. H. 2151 Cheng, Y. H. 2151
Chennevière, E. 3405
Chentsov, Yu. S. 8901
Chentsov, Yu. S. 8901
Chenulu, V. V. 7086
Cheong, Y. W. Y. 7252
Cherepakhin, V. I. 465, 925
Chernenkov, A. A. 7588
Chernova, L. A. 1166
Chernukhina, A. P. 6079
Chernyaev, N. G. 7653
Chernyasvkaya, T. N. 161
Chernykh, N. A. 6188
Chernyshova, G. F. 2552
Chesneaux, M.-T. 5201
Chestnaya, V. A. 1933, 2521
Chetvertakov, A. V. 1802, 1803, 2606
Chhatper, H. S. 3210 1803, 2606 Chhatper, H. S. 3210 Chhonkar, P. K. 4497, 5271 Chionkar, V. S. 3227 Chi, H. J. 784, 785 Chi, P. 2047 Chiang, M. S. 3652, 3655 Chiapparini, L. 6065 Chiarappa, L. 1692 Chiapparini, L. 5005 Chiarappa, L. 1692 Chiba, M. 7580 Chibbar, R. N. 2930, 4632 Chicco, C. F. 8103 Chichester, C. O. 5365 Chien-Chang Hsu 3905 Chien, M. 6303, 8029 Chiesa, M. 2710 Chikaizumi S. 5577 Chikaizumi, S. 5577 Chikov, V. I. 8710 Child, R. D. 5746 Childers, N. F. 436, 6472 Chingova-Boyadzhieva, B. 7986
Chiou, C. M. 8822
Chipman, E. W. 2081
Chirikdjian, J. J. 5486
Chisholm, D. 1951
Chitaley, S. D. 8075
Chitzanidis, A. 2624
28, 79, 66 Chitkara, S. D. 8075 Chitzandis, A. 2624 Chiusoli, A. 28, 79, 6627 Chizh, O. D. 6535 Chkhaidze, D. Kh. 3019 Chkhaidze, G. I. 3267 Chkuaseli, T. Ya. 5137, 5866, 7581 Chládek, M. 2352, 2368, 3083, 4728, 5490, 6249, 7081, 4728, 5490, 6249, 7081, 7098
4728, 5490, 6249, 7081, 7098
Chlebowska, D. A. 7491
Chlyah, A. 2223
Ch'ng, G. C. 8130
Ch'ng Guan Choo 4837, 8130
Cho, H. O. 1256
Cho, Y. K. 674
Chod, J. 3704, 6149
Chodzhukov, M. 1406
Choe, H. S. 5256
Choe, H. T. 4498
Chogovadze, R. N. 3274
Chohan, G. S. 8104
Chohan, J. S. 4818, 7160
Choi, E. H. 982, 983, 984, 1034, 1035, 1256
Choi, H. J. 3052
Choi, S. Y. 1180
Chong, C. 972, 5010, 5712
Choplin, G. 5342
Chopra, S. K. 3209
Chopra, S. L. 6486
Chorin, M. 325, 4066
Chou, H. E. 8668
Choudhary, K. G. 756
Choudhary, K. G. 1408
Choudhary, S. L. 3937
Choudhury, B. 1194, 3782, 5948, 6050, 6874
Chour, V. 3044
Choureitah, A. 7370, 7535
Chowdappan, S. R. 1252, 2477
Chowdhury, A. R. 8012
Chowdhury, T. K. D. 3239
Chrimes, J. R. 7641 Chrispeels, M. J. 4591 Christensen, J. V. 3443, 3444, 3445, 3504, 5021, 7430 Christensen, L. P. 1106 Christensen, M. 7054 Christensen, O. V. 1350, 3914, 6991 Christoph, W. 464, 1751, 1769 Chroboczek, E. 5881, 7604 Chromiński, A. 6935 Chroboczek, E. 5881 Chromiński, A. 6935 Chu, H. T. 7240 Chu, M. C-Y. 2106 Chu, T. L. 8255 Chubb, W. R. 8857 Chubey, B. B. 8656 Chumakovskii, N. N. Chumakovskiř, N. N. 4513 Chundokova, A. A. 5701 Chung, A. H. 3854 Chung, B. S. 2359 Chung, C. C. 1445 Chung, H. D. 1238 Chung, H. S. 1312, 1748, 3052 Chung-Shih Tang 8170 Chupeau, Y. 4146 4513 Churata-Masca, M. G. C. 6934 6934 Churchill, M.-E. 4683, 6207 Churchward, E. H. 6450 Chvojka, L. 47, 4996 Chylinska, K. M. 137 Cialone, J. C. 624 Ciatti, B. 3167 CIBA – GEIGY Ltd. 6491 Cifranič, P. 7446 Cigliano, G. 816, 5591, 7165, 7166 7166 Cilliers, C. J. 1491 Cinar, Ö. 5248 Cionini, P. G. 198 Cirami, R. M. 8531 Cirillo, A. 3472 Cirjaković, M. 7471 Ciudad B., C. 5263 Civerolo, E. L. 511, 5768, 6633 6633 Claest, J. 5822 Clagett, D. C. 899 Clanet, H. 1826 8995 Clanet, H. 1826 Clark, C. A. 8737 Clark, L. R. 2501 Clark, M. F. 4502 Clark, R. A. 2161 Clarkson, D. T. 8308 Claus, S. 7639 Clausen, G. 3860, 6992 Clausen, G. 3860, 6992 Clauses, W. 3942 Clawson, M. 4 Clauss, B. 3853 Clauss, W. 3942 Clawson, M. 4 Clay, D. V. 1683 Clayberg, C. D. 673 Claybon, L. L. 2615 Clayton, C. N. 1816, 7450 Clayton, J. E. 8257, 8260 Cleaver, T. J. 2739 Cleland, R. 6012 Clements, H. F. 6479 Clements, R. H. G. 5257 Cleveland, M. L. 3477 Clifford, D. R. 7385 Clore, W. J. 557, 597, 1081 Co, H. 1665 Coates, P. L. 828 Cobb, A. 153 Cobet, M. 9054 Cobianchi, D. 1025, 3424, Cobianchi, D. 1025, 3424, Cobianchi, D. 1025, 3424, 3485
Cobra Neto, A. 7703
Coburn, G. E. 8193
Cochran, H. L. 6046
Cochrane, H. S. C. 4733
Cocking, E. C. 1673, 2202
Cockroft, B. 6628
Cockshull, K. E. 272, 1401, 2191, 3296

2191, 3296 Cocozza, M. 4662 Coenen, K. 8487 Coffee, R. 5674 Coffey, D. L. 545 Coggins, C. W., Jr 5569 Cohen, A. 5548, 5579

Author Index Cohen, E. 3153, 6347 Cohen, J. 5560 Cohen, M. 7459 Cohen R 3776 3776 Cohen, R. Cohen, S. 3808 Cohen, Y. Cohen, Z. 3677 Cohn, E. 2484 Coïc, Y. 1988, 2682, 6479, 8308 8308 Coilier, P. 3798, 7618, 7650, 7651, 7680, 7681, 7776, 7817, 7824, 8510 Coirier, J.-M. 1258 Colantonio, V. 3499, 3579 Colbrant, P. 1000 Cole, H. 3829 Cole, H., Jr. 1210 Cole, H. Jr. 1211 Cole, J. R. 7101, 8028 Cole, J. R. 7101, 8028
Coleman, R. L. 4023
Coléno, A. 5246
Colin, J. 4232
Colladay, C. 4001
Collier, P. 4908
Collina, A. 2506, 4142
Collingwood, C. A. 3182
Collins, F. W. 133
Collins, R. P. 4644, 9003
Collins, W. B. 3530
Collip, H. F. 5225
Colliva, V. 320
Colliva, A. M. 7077
Colmenares C., S. 4554, 5240
Colombo Diaz, R. 7634
Colombo Diaz, R. 7634
Colombo Diaz, R. 7634
Colombo, R. 8727, 8728
Colonna, J. P. 8155
Colquhoun, A. J. 5940
Coman, T. 8474
Comba, D. 2417
Combettes, S. 3841
Combier, H. 9065
Combrink, J. C. 5008, 5145
Comer, A. E. 3901
Commodaro, M. 5845
Compagnon, M. P. 864
Condé, A. Dos R. 2036
Condé, A. R. 1009
Condon, B. N. 4125
Cone, W. W. 7093
Connor, L. J. 1200
Connor, M. D. 3904
Conover, C. A. 1389, 7025, 7045
Conreur, C. 8026 Coleman, R. L. 4023 7045 Conreur, C. 8026 Conroy, J. J. 243 Conseil International pour le Développement du Cuivre 1694 Considine, J. A. 4356 Constantine, G. H., Jr. 2988 Constantinescu, G. 7555, 8538 Constantinescu, I. 7567 Constantinescu, I. 7567
Constantinescu, I. 7567
Constantinescu, Irina 7567
Constantinescu, V. 8624
Conti, G. G. 1409, 1410
Continella, G. 792, 793, 803
Converse, R. H. 2686, 5810
Cook, A. A. 2848
Cook, C. 1988
Cook, R. J. 3316, 8750
Coolen, W. A. 1393
Cooley, E. J. 8997
Cooley, T. N. 8706
Coomans, P. 2456, 2457, 4068
Coombe, B. G. 4264, 4356
Coombe, B. G. 4264, 4356
Coombe, J. 8248
Cooper, A. J. 682, 4920
Cooper, D. R. 49
Cooper, W. C. 3148, 8084
Cooper, W. C. 3148, 8084
Cooper, G. G. 3428, 6595
Copley, E. F. 7233
Coppock, G. E. 4011, 4013
Coral, F. J. 9142
Corbaz, R. 5858
Corbet, P. S. 2501
Corbin, H. B. 1770
Corcoran, M. R. 2825
Corduan, G. 9051
Corgan, J. N. 1247, 5042 Constantinescu, Irina 7567

Corley, R. H. V. 1602, 2459, Corley, R. H. V. 1602, 24: 3244, 9184
Corley, W. L. 2934, 3859
Cormack, D. B. 3308
Cormeli, M. M. 8788
Cornic, G. 7073
Corpuz, L. C. 2074
Correa, N. S. 9264
Correll, F. E. 1816 Corrias, G. 4025 Corrie, W. J. 4433 Cortes, A. J. 1904 Cortés-Monllor, A. 669, 8227 Cortés Monllor, A. 8228 Corvi, C. 7301 Cory, L. 5853 Cory, L. 5853
Cosarinsky, A. M. de 8603
Cosevska, O. 7445
Cosevski, B. 7445
Cossins, E. A. 3675
Costa, A. S. 4797
Costa, C. P. Da 1182
Costa, F. 3139, 8088
Costa, G. 28, 482, 1023, 1848, 1849, 6583
Costa, J. G. C. da 3695, 8671
Costa, M. C. B. 5890
Costa, P. 1071, 1190
Costa Rica, Instituto
Interamericano de Ciencias Interamericano de Ciencias Agrícolas de la OEA 5971 Agrícolas de la OEA 5
Costa, S. I. Da 359
Costacurta, A. 5846
Coster, J. De 4176
Coster, J. De 8383
Costilla, M. A. 5655
Costin, J. J. 3522
Cotter, D. J. 1247
Couch, H. B. 740, 2207
Couchman, R. 6783
Couey, H. M. 4303, 8409
Coupé, M. 3254
Courie, F. 1549
Courduroux, J.-C. 2749 Couprie, F. 1549 Courduroux, J.-C. 2749 Coursey, D. G. 4147 Court, W. E. 3073 Courter, J. W. 8491 Cousin, M.-T. 762 Cousin, R. 6859 Coussio, J. D. 772, 777, 2348, 3964, 9043 Coussio, J. D. 772, 777, 2348, 3964, 9043
Couvillon, G. A. 4249
Coviello, R. L. 33
Cowan, I. R. 2509
Cowin, R. F. 7638
Cowles, J. R. 1234, 7734
Cowley, P. S. 1448, 2357, 3075, 8019
Cowling, E. B. 3316
Cox, E. A. 7772, 7864
Cox, E. F. 5673
Cox, J. E. 1478
Cox, R. S. 2937
Cox, T. I. 2017, 2078
Coxon, D. T. 6463
Coyne, D. P. 2022, 2023, 7696
Cradock, F. W. 1478
Craft, C. C. 4806
Craig, D. L. 3543, 5811
Craker, L. E. 448, 2015, 3668, 4633
Cram, W. J. 2899 4633 Cram, W. J. 2899 Cram, W. T. 8500 Crandall, B. S. 4827 Crandall, P. C. 640, 1058, 2684, 5087, 8500 Crane, E. 5899 Crane, G. L. 7943 Crane, J. C. 994, 1039, 3503, 7424 7424 Craner, E. A. 3196 Cranham, J. E. 30 Craster 4901, 4905 Craster 4901, 4905 Crawford, H. M. 4607 Creager, R. A. 8 Crecsimanno, F. G. 6376 Creighton, C. S. 4427 Cremonini, R. 198 Crescimanno, F. G. 7442 Crête, R. 3652, 3655, 7751 Crettenand, J. 1115 Crevasse, J. M., Jr. 5388

Cricoveanu, R. 7307 Criley, R. A. 1566, 6157 Crill, J. P. 2873 Crill, P. 2110, 2854, 2860, 6914, 7797, 7799 Cripps, J. E. L. 1731 Crisp, A. F. 7612 Cristoferi, G. 540, 1846 Crivelli G. 1814, 1815 Cristoferi, G. 540, 1846
Crivelli, G. 1814, 1815
Črnko, J. 3383
Crocker, T. E. 3995
Crocomo, O. J. 4060
Crofts, J. 3659
Crombie, L. 7955
Cronshaw, J. 7691
Crooke, M. 7035
Crooke, W. M. 7873, 7874
Cropley, R. 4205
Croquelois, G. 1427
Cros, J. 9065
Crosbie Cochrane, H. S. 4733
Croteau, R. 1412, 3025
Crowdy, S. H. 1223, 1224
Crowe, A. D. 5694, 5695, 5696 Crowe, A. D. 5694, 5695, 5696
Crozier, J. A., Jr. 9191
Crüger, G. 1191, 3626, 5891
Cruz, B. P. B. 4532, 5814
Cruz, R. de la 5651
Cruz, V. F. da 6479
Cuevas-Ruiz, J. 1596
Cummings, G. A. 1019
Cummins, J. C. 5702
Cummins, J. C. 5702
Cummins, J. N. 5018
Curtis, C. E. 33
Curtis, R. W. 3721
Curto, S. 5381
Curvale, J. P. 7652
Cus, M. 7609, 7610
Custódio, J. 9172
Cutcliffe, J. A. 1881, 3657, 3658 5696 3658 3658 Cuthbert, R. B. 4427 Cutting, C. V. 7320 Cutuli, G. 4800, 5556, 6358 Cvasníi, D. 7482 Cvetković, D. 6629, 7447 Cyprus, Agricultural Research Institute 3345, 3560, 3604, 3980 Cyriac, P. V. 4666, 9062 Czechoslovakia, Akademie Zemědělská 5881 Czechoslovakia, Průhonice Research Institute of Ornamental Horticulture 2908 Czechoslovakia, Research Institutes for Crop Production 6713 Czechoslovakia, Výzkumný Czecnosiovakia, Výzkumný Ústav Chmelařský 7088 Czechoslovakia, Zemědělská Akademie 6477, 6478 Czygan, F. C. 9053 D., S. K. 854, 3273 Dadiani, R. G. 7271 Dadoun, H. 8026 Daelemans, A. 8791 Daepp, H. U. 5012 Daft, G. C. 3915 Dahlenburg, A. 6651 Daepp, H. U. S012
Daft, G. C. 3915
Dahlenburg, A. 6651
Dahlsson, S. O. 2973
Dahmen, W. J. 4261
Dähne, D. 2621
Daigger, L. A. 3894
Dailey, R. T. 5144
Daines, R. H. 485
Daito, H. 2413, 7325
Dakwa, J. T. 4847
Dalal, V. B. 4872
Dalbro, K. 724
Dalchow, J. 8945
Dale 4107
Dale, J. L. 2972
Dales, J. L. 2972
Dales, P. S. 4302
Dalessandro, G. 7635
Daletskaya, I. A. 2060
Dall'Acqua, F. 9055
Dallenger, J. 6115, 7811

Dalmasso, G. 1086 Daly, P. 5918, 7686, 7770, 8759 Daly, P.-M. J. 1271 Dam, J. Van 8913 Damavandy-Kozakonane, H. 1817 Dame 8733 Damiani, P. 6784 Damigella, P. 502, 792, 793, 803 Damon, R. A., Jr. 4997 Dana, M. N. 1062, 4219, 5093 Danailov, B. 6749 Dancsné Rozsnyai, Z. 7423 Daneau, J. 8742 Daniel, C. 9151 Daniell, J. W. 78, 2643, 5056, 8543 Daniels, J. 8192, 8219 Daniels, M. D. 1045 Daniels, J. 8192, 8215 Danilov, M. D. 1045 Danko, J. 7387 Dan'kov, V. V. 8489 Dantur, N. C. 370 D'Aoust, A. L. 7709 Darbyshire, J. F. 493: Daris, V. T. 7586 Darley, E. F. 1020 Darrow, G. M. 4321 Dart, P. J. 4103 Darwett A. J. 3304 4938 Darwent, A. L. 3304, 5283 Das, B. C. 1355 Das Chowdhury, T. K. 3239 Das Chowdhury, T. K.
Das, G. 6789
Das, K. C. 8032
Das, N. 9134
Das, P. K. 665
Das. P. K. 2492
Das, P. K. 8295
Das, R. C. 7755, 8739
Dasgupta, D. R. 2878
Dasgupta, S. K. 7981
Dash, P. C. 6396
Daskalov D. 1907 Dash, P. C. 6396 Daskalov, D. 1907 Daskalyuk, A. P. 6097 Dastane, N. G. 8741 Dastidar, P. P. G. 349 Date, N. 6133 Date, W. B. 8412 Dathan, A. S. R. 400 Datta, P. 3219 Datta, T. 8013 Datta, T. 8013
Datunashvili, E. N. 7595
Daubeny, H. A. 539, 1054, 1055, 1863, 5809, 8500
Daulta, B. S. 556
Daunicht, H. J. 6353
Dauple, P. 3554
Dausend, B. 4240
D'Auzac, J. 3254, 7228
Dave, G. S. 6823
Davepnort, D. C. 2424, 263 Dave, G. S. 6823 Davenport, D. C. 2424, 2630, 4239, 6355 Davet, P. 4569 David, D. J. 7713 David, P. 4509
David, D. J. 7713
Davide, R. G. 8078
Davidek, J. 3330
Davidson, R. M., Jr 4671
Davidson, T. R. 80, 4236
Davidyuk, L. P. 753, 4268
Davies, B. H. 2898
Davies, D. R. 873, 2048, 2232
Davies, J. A. 2557, 2794
Davies, J. N. 2135, 2137
Davies, M. E. 319, 1394, 1395
Davies, P. J. 2795, 3714, 3849, 6869, 8696
Dávila Flores, G. 5794
Davis, C. P. 4540
Davis, D. W. 8668
Davis, F. S. 5226
Davis, H. C. 86
Davis, J. T. 4481
Davis, S. L. 6366, 9104
Davis, S. 2376
Davis, S. 2376
Davis, S. 2376 Davis, P. L. 6366, 9104 Davis, S. 2376 Davis, T. A. 4831, 6372 Davison, M. W. 46 Davison, J. G. 1683 Davison, R. M. 480 Davtyan, N. G. 6938

Dawidar, A. A. M. 4777
Dawidar, A. M. 4777, 8595
Dawson, J. R. 2488
Daxl, R. 5623
Day, H. 8419
Day, J. M. 4103
Day, J. R. 2145
Day, M. 8798
Dayton, D. F. 1777, 3374, 4995 4995 D'Cruz, R. 9218 De, G. N. 3208 De, R. 5926 De Vries, D. P. 5801 De Wolfe, T. A. 6329 Deal, D. R. 1105 Deason, D. L. 4015 Deb, D. I. 2878 4995 Deb, D. L. 2878 Debelyi, A. S. 3062 Debergh, P. 7849 Debic, J. 4685 Debor, H. W. 4161, 7409, 8483 Debray, M. 1427 Decheva, R. 338, 339, 2323, Decker, H. 5605 Decker, H. 1228 Decourtye, L. 3415 Décsei, L. 5528 Defrawi, M. El 7147 Degeyter, L. 7527, 8808 Deidda, P. 800, 4007 Deiser 6143 Deidda, P. 800, 4007
Deiser 6143
Deiser, E. 6782
Deist, J. 120, 145, 3802, 5192, 8452, 8619, 8620
DeKock, P. C. 3299
Delabarre, M. 4077, 6421
Delbos, R. 510, 1808
Delchev, L. 7697
Delfino, E. P. 1761
Dellacecca, V. 8605
Delley, B. 2658
Delmas, J. 8821
Delorme, M. 4051
Delplanque, A. 7823
Demetradze, T. Ya. 3131, 8265 8265 Demetriades, S. D. 993, 1041, 1486 Demirören, S. 510, 1808 Demirovski, A. 5714 Demo, M. 3436 Dempfle, W. 7521 Dempsey, A. H. 2844, 2934, 3859 3859
Dem'yanets, E. F. 6589
Dener-Madsen, G. 3889
Deng, Q. 1954
Denikeeva, M. F. 2334
Denisen, E. L. 549
Denisov, P. V. 3754
Denisova, E. K. 1430
Denmark, Almindelig dansk
Gartnerforening 3298 Denmark, Almindelig dansk Gartnerforening 3298 Denmark, J. C. 2269, 3002 Denmark, Spangsbjerg Forsøgsstation 5372 Denmark, Statens Forsøgovirksomhed i Plantekultur 6791 Denmark, Statens Forsøgsvirksomhed i Plantekultur 3548, 3823 Denmark, Statens Forsogsvirksomhed i Plantekultur 3918 Denmark, Statens Forsøgsvirksomhed i Plantekultur 3931, 4629 Denmark, Statens Forsogsvirksomhed i Plantekultur 4665 Denmark, Statens Forsøgsvirksomhed i Plantekultur - 4698, 4722, 5187, 5200, 7071 Denmark, Statens Plantepatologiske Forsøg, Lyngby 4136 Denmark, Statens

Væksthusforsøg 8604

Dennis, F. G. 926 Dennis, F. G., Jr. 4235, 5019 Dennison, R. A. 1504, 4022 Dennöl, A. 6321, 9060, 9061 Denokar, A. B. 5301 Deol, G. S. 8760 Deol, S. S. 3144, 7422 Deol, S. S. 3144, 7422
Department of Agriculture and
Fisheries for Scotland 4123
D'Ercole, N. 1071, 1244,
2283, 3539, 3654
Dermen, H. 315, 1385, 7441
Dermine, E. 4232
Desai, B. G. 6920, 8791
Deshmukh, V. K. 4773
Deshpande, R. 750
Deshpande, R. 750
Deshpande, S. 3174
Deshpande, S. 3174
Deshpande, S. U. 8116
Desiderio, E. 1137
Desjobert, A. 3962, 3963
Desmukh, S. K. 2355
Destandau, G. 1906, 8535
Deullin, R. 1614 Desmukh, S. K. 2355 Destandau, G. 1906, 8535 Deullin, R. 1614 Deunff, Y. Le 8607 Dev, G. 8385 Dev, S. 348, 7105, 9039 Deventer-Schiemer, H. van 2609 2609
Deverall, B. J. 3706
Devetak, Z. 8996
Deville, J. 4887
Devlin, R. M. 2691, 5988 Devochkin, F. A., Sokolova, N. P. 1251 Devochkina, Z. L. 8898 Devtyan, V. A. 5842 Devyatov, A. S. 939, 4969, Dewey, D. H. 55, 1775, 3432, 4221 4970 DeWolfe, T. A. 4001, 4787 Dey, S. K. 1662 DeWolfe, T. A. 4001, 4787 Dey, S. K. 1662 Dezső, I. 6614 Dhaki, A. J. 5628 Dhaliwal, G. S. 4447 Dhamane, V. M. 7572 Dhande, G. W. 7572 Dhar, K. L. 2246, 6178 Dhar, M. M. 2362 D'Hardemare, G. 1310, 1311, 6953 D'Hardemare, G. 1310, 1311, 6953
Dharkar, S. D. 3210
Dhillon, B. S. 8552
Dhillon, H. S. 8665
Dhooria, M. S. 1489, 8233
Dhua, S. P. 665
Dhuria, H. S. 9129
Dias, H. F. 5853
Diasamidze, Sh. S. 8344
Diaz, D. H. 2637
Díaz Peña, A. 8173
Dick, J. 425, 8234
Dicker, G. H. L. 1049, 4309
Dickerson, O. J. 645
Dickey, R. D. 5388, 7062
Dickey, R. S. 180, 5247
Dickinson, D. B. 8793
Dickinson, H. G. 4661
Dicks, J. W. 4630, 5431, 7846
Dickson, M. H. 2784, 5978
Dickson, R. C. 2936
Die, J. van 2964, 2965
Dieken, R. van 2278
Dieleman-van Zaayen, A. 7831 6953 Dieleman-van Zaayen, A. 783
Diener, R. G. 978
Dierner, J. P. A. van 5009
Dierickx, P. J. 8986
Dieter, A. 7848
Dietrich, J. V. 6732
Dietz, M. J. 4607
Diez, F. B. 5281
Dijk, A. J. Van 1175
Dijk, G. E. Van 1370
Dijkman, A. van 5355
Dijkstra, J. 6270
Dilley, D. R. 32, 1363, 2006, 3432, 5690, 7010
Dilworth, A. E. 6939
Dimaunahan, L. B. 4527
Dimchev, V. 572, 4347, 6742
Dimitrijević, B. 5853, 6683 Dieleman-van Zaayen, A. 7831

Dimitrijević, R. 2522 Dimitrov, D. 6257 Dimitrov, G. 8776 Dimitrov, I. 2337 Dimitrov, Z. 6070 Dimitrovski, T. 4270, 6629, Dimock, A. W. 1333, 4626, 4627 Dimond, A. E. 4928, 6923 Dimopoulou-Lekka, D. 993, 1041 Dimov, N. 4255 Dimza, I. Ya 496 Din, I. F. G. El 2240 Dingley, J. M. 9117 Dinglinger, G. 3361 Dioffasi, L. 4334 Dionigi, A. 6375 Dipaola, G. 819, 4169 Dirimanov, M. 6677 Dirr. M. A. 1063, 894 Dirimanov, M. 6677
Dirr, M. A. 1063, 8949
Ditmer, W. P. 7625
Dixon, G. R. 2757, 5165, 6007
Djomo, E. 824
Dmitrieva, L. I. 6725
Doak, G. O. 5427
Doazan, J. P. 8536
Döbereiner, J. 4103
Dobray, E. 7590
Dobreanu, M. 7809, 8763
Dobrescu, V. 7307
Dobrolyubskii, O. K. 2719 Dobrolyubskii, O. K. 271 Dobroserdov, S. G. 3409 Dobrý, J. 4688 Dobrzanska, J. 7604 Dobry, J. 4688
Dobrzanska, J. 7604
Dodge, J. D. 5202
Doersch, R. E. 4501
Dogramadzhyan, A. D. 1927
Doïchev, K. 7367
Doïkova, M. 4547, 4589
Dolejš, L. 7954
Dolldze, M. M. 3116
Dollar, A. M. 2435, 2461
Dollwet, H. H. A. 224
Dolphin, R. E. 3477
Domańska, H. 7333
Domanskaya, E. N. 7061
Domenico, J. A. 6105
Dominguez R., P. F. 1548
Domínguez R., P. F. 1548
Domínguez R., P. F. 8131
Domínguez, R. P. F. 8131
Dominguez, R. P. F. 8131
Dominguez, R. P. F. 1548
Dominguez, R. P. F. 365 Donadze, V. Z. 365 Donald, J. D. 6910 365 Donato, M. De 156, 4378, 5231 Donchev, A. 1098, 4336 Donchev, D. V. 1033, 1829 Doncheva, A. D. 8900 Dongo D., S. 643 Donini, A. 5175 Donk, J. A. W. M. Van der 275 Donnan, A. 5476 Doodson, J. K. 5165 Dooley, H. L. 6228 Döpke, H. 2198 Döpke, W. 8041 Döpke, W. 8041
Doraiswamy, S. 6920
Doran, S. M. 921
Dorche, J. 6021
Dorer, M. 3965
Dörffling, K. 1155
Dorge, S. K. 857
Dorion, N. 4146
Dorofeeva, E. V. 56
Dorokhov, B. L. 6573, 8693
Dorough, H. W. 2033
Dorough, H. W. 2033
Dorozhkin, N. A. 5817
Dorph-Petersen, K. 724
Dorsman, C. 1175
*Doskotch, R. W. 2370, 5468, 6292, 6320
Doss, C. K. 8048
Doss, G. J. 6495
Dostal, H. C. 1026, 5776
Dostál, R. 2976
Dostálek, J. 7376
Doud, S. L. 4178
Doughty, C. C. 2684
Douglas, F. 4920
Dowker, B. D. 8287

Dowler, W. M. 3478 Dowling, C. F. 1559 Downing, F. S. 4121 Downing, M. 3028 Downing, M. 3028
Downing, R. S. 957
Doy, C. H. 4582
Doyle, J. 1837
Draganov, D. 5834
Draganov, D. S. 441
Draganov, G. 3575, 3576, 5110, 5834, 6741
Dragland, S. 5299, 5300
Drahorad, W. 464, 4162
Drake, C. R. 1749, 1750, 4209
Drakes, G. D. 6036
Drandarevski, C. A. 4140
Draper, A. D. 1874, 5090
Drennan, D. S. H. 207
Drenth, A. van 887, 5683
Drescher, R. W. 4022
Drewlow, L. W. 5428, 8858
Drews, M. 117, 5160
Drexler, L. 1420
Drexler, O. 1421, 6280
Drijfhout, E. 4516
Drouet, A. 8472
Drover, D. P. 4144
Drozd, A. M. 649, 6004
Drozdova, O. A. 7747
Drozdovskaya, L. S. 2350
Drumm, H. 334, 3012
Drummond, D. B. 2925
Dryagina, I. V. 874, 6172
Drysdale, R. B. 6085
D'Souza, G. I. 6406 Downing, R. S. 957 Dryanovska, O. A. 22
Drysdale, R. B. 6085
D'Souza, G. I. 6406
Du, C. T. 8958
Dua, S. P. 1625
Duarte, O. 4789
Dube, S. D. 3121
Dubernet, M.-O. 3601
Dubey, C. S. 1405
Dubey, L. N. 7000
Dubey, R. 1407
Dubinsky, W. P. 8995
Dublin, P. 9138
Dubois, P. 1257
Dubos, B. 6659
Dubovenko, E. K. 12 8995 Dubos, B. 6659
Dubovenko, E. K. 1229
Dubravec, I. 3488
Dúbravková, L. 7954
Dubuc-Lebreux, M.-A. 1349
DuCharme, E. P. 3123
Ducheyne, H. 8808
Ducrot, V. 2614
Dudchenko, L. G. 2071, 3746
Duden, R. 2103 Duden, R. 2103

Dudin, V. C. 6266

Dudney, P. J. 8318

Dudok, E. P. 154 Dudok, E. F. 154
Duensing, G. 876
Duff, D. M. 8373
Duff, D. T. 304
Dufflek, J. 6076
Duffleld, A. M. 349
Duffus, J. E. 4412
Dufková, V. 4996
Dufournet, R. 3939
Durganova F. A. 42 Dufournet, R. 3939
Duganova, E. A. 4273
Duggan, J. B. 3397
Duhan, K. 7486, 8355
Duich, J. M. 3893
Dukhanin, K. S. 7350, 8325
Duleba, K. Ī. 1843
Dumitrescu, G. 7482
Dunaev, V. S. 5873
Duncan, E. J. 4841
Duncan, I. 203
Duncan, W. G. 4
Dunez, J. 510, 1808
Dunn, J. A. 1159, 3666
Dunn, J. S. 1046
Dunn, R. A. 6570 Dunn, J. S. 1046 Dunn, R. A. 6570 Dunn, S. 8307 Dunphy, P. J. 9004 Dupnik, T. 7669 Dupuy, M. 2118 Duque, F. F. 8671 Durairaj, P. 4639 Durairaj, V. 845, 6429 Durand, J. 6154 Durand, R. 1311, 6953

Author Index Duranti, A. 4320, 4399 Durbin, R. D. 5218 Durdević, B. 6547, 6555, 6641 Duret, S. 4727 Durgin, R. E. 7513, 8492, 8493, 8496 Durham, L. J. 349 Durieux, A. J. B. 5424 Düring, H. 6759, 8568 Durkee, A. B. 86 Durkin, D. 2296 8634 Durkin, D. 2296
Durlecher, M. 4028
Durnerin, A. 6254
Duron, M. 1833
Durquety, P.-M. 1906, 8535
Durst, F. 1960
Dušková, L. 6274
Dutcher, R. D. 1779
Dutova, L. I. 5700
Dütsch, G. 8828
Dütsch, G. 48828
Dütsch, G. A. 8877 Dütsch, G. 8828 Dütsch, G. A. 8827 Dutt, A. K. 7973 Dutta, A. K. 9273 Dutta, C. P. 1452 Dutta, K. N. 9277 Dutta, N. L. 6300 Dutta, O. P. 8644 Dutta, N. L. 6300
Dutta, O. P. 8644
Duvekot, W. S. 5749
Duvenage, A. J. 256
Dvořák, J. 3395, 4188
Dvořák, S. 2352, 2368
Dvoryaninova, K. F. 7857
Dyadchenko, D. G. 2565
Dyck, R. 7462
Dye, D. W. 651
Dyk, P. J. van 4805
Dzhabaev, B. R. 4999
Dzhamalitdinov, Kh. 5873
Dzhamalov, G. 2085
Dzhanabev, T. N. 9026
Dzhanashiya, M. A. 8279
Dzhanashiya, N. M. 3029
Dzhanalidze, M. F. 8061
Dzhaparidze, I. G. 8944
Dzhaparidze, I. 1 2985, 5137
Dzhashi, V. S. 3279 Dzhaparidze, I. G. 8944 Dzhaparidze, L. I. 2985, 5 Dzhashi, V. S. 3279 Dzhavakyants, Zh. L. 944 Dzhikiya, A. I. 3104 Dzhokhadze, T. I. 2763 Dzieciol, R. 8402 Dzięciol, W. 7333 Dziewanowska K. 4637 Dziewanowska, K. 4637 Dziewanowska, K. 463/ Eagles, J. 6783 Eaks, I. L. 383, 9073 Early, M. P. 8220 Early, R. E. 6264, 6265 East African Agriculture and Forestry Research Organization 6844, 8188 East African Community,
Tropical Pesticides Research
Institute 5245, 5617 East African Industrial Research Organization Research Organization
4855
Easterbrook, M. A. 4309
Eastin, E. F. 6830
Eastin, J. D. 4
Eaton, G. W. 1054, 1055,
3597, 4183
Eaves, C. A. 53, 5695, 5811
Eavis, B. W. 2053, 2054, 2812
Ebbens, J. L. 8611
Ebel, R. 6698
Ebermann, R. 7591
Ebihara, M. 8126
Eck, P. 3531
Eddins, R. 6814, 7678
Eddy, B. F. 110
Edelman, J. 259
Eden-Green, S. J. 6519
Eder, J. 5931
Edgerton, L. J. 500, 975
Edgington, L. V. 2875
Edison, S. 9249
Edje, O. T. 2011, 2014, 5973,
5975
Edland, T. 4216 4855 59/5 Edland, T. 4216 Edmunds, J. E. 1543 Edney, K. L. 486, 5751 Edrees, M. 1245 Edwards, G. E. 9260

Edwards, G. J. 4017 Edwards, K. J. R. 3852 Edwards, T. W., Jr. 1067 Eeden, F. J. Van 232 Effel', Z. I. 1730 Efimov, M. S. 4450 Efter, M. 4006 Egamberdiev, A. R. 3112, 3113 5113 Egan, B. T. 1635 Egbe, N. E. 5613 Egea, L. 492, 508 Egerat, A. W. S. M. Van Egeraat, A. W. S. M. Van 8716 Eggenberger, W. 5832, 5833 Eggens, J. L. 3009 Egger, E. 5126, 5852, 6735 Eggers, H. 8859 Eggert, D. 3787 Egiazaryan, V. Kh. 5037 Egie, K. 2915 Eglit, V. R. 6832 Egoff, D. R. 321, 2310 Egorova, L. I. 2060 Eguagie, W. E. 7201 Eguchi, H. 6825 Egurazdova, A. S. 8399 Eheart, M. S. 3670 Ehrt, M. 326 Ehsanullah, L. 1598 Ehrt, M. 326 Ehsanullah, L. 1598 Eichhorn, S. E. 7688 Eid, K. 8420 Eijden, J. van 4195 Eijk, J. P. van 7008 Eilati, S. K. 4005 Einert, A. E. 295, 3879, 7958 Einset, J. 962, 5108, 5829, 7551 7551 Eisa, H. M. 3625 Eisenbrandt, K. 1419 Eisendle, T. 1763 Eisinger, W. 3335 Eisinger, W. R. 4512 Eisner, T. 5415 Eisner, T. 5415 Ekambaram, C. 1630 Ekern, P. C. 9262 Ekhaugen, K. 4133 Eklund, E. 5212 Eksteen, G. J. 8452 El-Azzony-M. 1479 El-Badawi, A. A. 8259 El-Barkouki, M. 2167, 2168 El-Defrawi, M. 7147 El-Defrawi, M. 7147
El-Gamassy, A. M. 2167, 2168
El-Gazzar, A. M. 1477
El-Gendy, S. A. 2167, 2168
El-Ghandour, M. A. 2842
El Ghandour, M. A. 8756
El-Goorani, M. A. 4667
El-Hamady, M. 6378
El-Kersch, M. 769
El-Masry, S. 6301, 6302
El-Minshawy, A. M. 201
El-Moghazy Shoaib, A. M. 1399, 3079
El-Nabawi, S. M. 2414, 2439, El-Nabawi, S. M. 2414, 2439, 2440 El-Naggar, S. 1479 El-Olemy, M. M. 776, 1435, 2342 El-Rahman, A. A. A. 9008 El-Refai, A. 183 El-Sayyad, S. M. 1399, 3079 El-Shabrawy, O. A. 4495 El-Shamy, A. M. 3049 El-Sherbeeny, M. R. 5168, 5172
El-Shestawi, M. 642
El-Swaify, S. A. 4888, 6439
El-Tamimi, A. 5633
El-Wakil, M. 605
El-Zeftawi, B. M. 5871
Elahi, M. A. 9229
Elarosi, H. 4456
Elbe, J. H. von 5902
Eldridge, B. J. 7771
Elema, R. 6698
Elenkov, E. 5312, 5343
Elfving, D. C. 3140, 6356
Elgamal, M. H. A. 350
Elgar, K. E. 7302
Elgawhary, S. M. 4561
Elgersma, D. M. 4571, 4572 5172

Elia, M. 7633 Eliseev, I. P. 5045, 5481, 5482, 5788 Ellett, C. W. 4719 Elliott, R. F. 3419 Elliott, W. M. 3738 Ellis, G. A. V. 6031 Ellis, J. 3017 Ellis, J. R. 6242 Ellis, P. R. 2121 Ellis, R. 6697 Ellis, R. J. 4515 Ellis, R. J. 4515 Ellissèche, D. 4369 Elmanova, T. S. 3479 Elmer, H. S. 8079 Elmore, C. 2921, 6226, 6227 Elmore, C. L. 452, 710, 1323, 8913 8913 Elmstrom, G. W. 5946, 7675 Elnabauy, S. M. 2414, 2438, 2439, 2440 Elnabouy, S. M. 2414, 2438, 2439, 2440 Eloja, A. L. 2437 Elrick, J. D. 4496 Else, J. 7979 Elsevier Scientific Publishing Elsevier Scientific Publishing Company 7275 Embleton, T. W. 798, 4791, 9086 9086 Emboden, W. 8970 Embree, C. G. 5694 Emden, H. F. Van 1697 Emechebe, A. M. 387 Emden, H. F. Van 1697 Emechebe, A. M. 387 Emerson, F. 7336 Emerson, F. H. 911, 1026, 3374, 5776 Emmert, F. H. 2796, 6479 Encke, O. 7784 Ende, B. Van den 1018 Ende, J. van den 7628 Endo, R. M. 1168 Ende, J. van den 7628 Endo, R. M. 1168 Engel, E. 5155 Engel, G. 471, 6593 Engel, J. B. van den 7361 Engelbrecht, D. J. 2575, 3549, 5853
Engelchik, M. 3801
Engelhard, A. W. 5405, 6163, 6972, 6973, 8862
Engelmann, W. 8928
Engels, E. 4689
Engelsma, G. 5963
Engivlid, K. C. 9036
Enikeev, Kh. K. 8430
Enikeev, K. 8775
Enoch, H. Z. 7949
Enoch, Z. 3920
Enriquez C., G. A. 834
Enzie, J. V. 5718
Eppendorfer, W. H. 199
Epstein, W. W. 7966
Ercolani, G. L. 3984, 4276, 4600, 6915, 6916 5853 Ercolani, G. L. 3984, 4276
4600, 6915, 6916
Eremeev, G. N. 4211
Eremin, G. V. 905, 4244
Eriksen, E. N. 3747, 5462
Eriksson, T. 7819
Erkeev, M. I. 2780
Ermakova, I. I. 2996
Ermolova, E. V. 5367
Erner, Y. 7149
Ernst, R. 5458 Errecaborde de Lasserre, E. N. 6381, 8118 Érsek, T. 2792 Ershov, I. I. 6026 Ervin, J. O. 8055 Eryusheva, E. M. 6268 Esartiya, M. V. 3271, 8268 Esashi, Y. 730, 8886 Esayan, G. S. 4230, 5037 Escaff, M. G. 7131 Escarria, S. 7106 Esch, H. van 1962, 1966, 4126, 5185, 6787 6381, 8118 Esch, H. van 1962, 1966, 4126, 5185, 6787 Eschrich, W. 7688 Esen, A. 7123 Esenam, E. U. 830 Eshel, Y. 1267, 2843, 4468, 4549, 5888 Espinoza P. J. 7235

Esquerré-Tugayé, M.-T. 5220, 7685 Essig, W. 8298 Estabrooks, D. N. Estrada, E. 7200 Etheridge, P. 4490 Etherton, B. 5358 Etten, H. D. Van 8688 Etzel, W. W. 626 Etzer, W. W. 626 Eŭdakimava, G. A. 5344 Evans, D. E. 4891, 8235, 9254 Evans, F. J. 1448, 2357, 3075, 8019 Evans, G. 442, 2230 Evans, G. E. 316, 1328 Evans, H. J. 8308 Evans, L. S. 7711, 8682 Evans, L. T. 5265, 7727 Evans, R. J. 7724 Evans, W. C. 1432, 3004, 3015 Evdokimoff, V. 3050 Evenari, M. 8426 Evéquoz, M. 1725 Everett, P. H. 6071 Evert, R. F. 7688 Evola, C. 4802 Evola, C. 4802 Evstigneeva, Z. G. 2061, 8723 Ewusie, J. Y. 6271 Exner, B. B. 9223 Eynlard, I. 1126, 1895, 5023 Eyolfson, J. L. 8016 Eysinga, J. P. N. L. R. van 5345 Ezell, D. O. 2787 Ezerla, A. A. 1241 Ezerzha, A. A. 1241 Ezhov, V. N. 7595 Faas, K. H. 5116, 8549 Faccioli, F. 1846, 1847, 5063 Faccioli, G. 1294, 3629, 3803, 6095 6095
Facsar, G. 6763
Facteau, T. J. 5767
Fadda, G. S. 9244
Fadl, M. S. 8756
Fageria, N. K. 6250
Fahmy, M. A. El-H. 789
Fahn, A. 8009
Fahy, P. C. 3828
Fahy, P. G. 2905
Fainerman, L. S. 5142
Fairbrothers, D. E. 4059
Faithfull, E. M. 1984
Faivre-Amiot, A. 762
Falade, J. A. 4507, 7787
Falcon, L. A. 1761
Fald, M. S. 2842
Fallot, J. 4278, 5044
Faltynowicz, M. 5819
Faluba, Z. 1679
Falusi, M. 5592
Fang, T.-T. 6368
Fanguy, H. P. 9234
Fanjul, R. 8258
Fankhauser, F. 1784, 1796 Facsar, G. 6763 Fankhauser, F. 1784, 1796, 6576 6576
Fantino, M. G. 6806
FAO 863, 1672, 3297, 4046
Faparusi, S. I. 2351
Farag, M. A. 778
Faria, V. P. de 5580
Farley, J. D. 2874, 2876, 8765
Farmer, A. 4245
Farmer, W. J. 8055
Farnsworth, N. R. 2343, 2344, 2346, 2347, 2360, 5532, 6291 6291 Farooqi, M. I. H. 4870 Farr, E. 9, 5307 Farrahi-Aschtiani, S. 1442 Farrell, K. M. 2460 Farrimond, A. 5089 Farrimond, A. 5089
Fasihi, S. 1619
Faskhutdinov, Sh. 3310
Fassbender, H. W. 6911
Fast, G. 2273 Fast, G. 22/3 Fatali-Zade, F. A. 2534 Fatemi, J. 2392 Faulkner, R. 7035 Faust, H. 5832, 5833 Faust, M. 922, 1771, 4201, 4981, 6479 Fauvel, M. 5348

Favali, M. A. 1169, 1409, 1410 Favaloro, M. 4803 Favelli, F. 5381 Favilli, F. 2701 Favre-Bonvin, J. 9007 Favretto, L. 5837 Fawzi, A. F. A. 1122 Fay, R. D. 557 Fayez, M. B. E. 350, 4777 Fazalnoor, K. 1360 Fazli, F. R. Y. 5537 Feder, W. A. 1340, 3916, Feder, W. A. 1340, 3916, 4392, 6840
Fedorchenko, G. P. 7110
Fedorichik, N. S. 8648
Fedorov, M. 1791
Fedorov, V. 3310
Fedorov, V. 3310
Fedorov, V. 3310
Fedorov, I. M. 2595, 3430
Feely, L. 1961
Feiter, A. 478
Fejer, S. O. 4174
Feldman, A. W. 4796
Feldman, S. 3696
Feldmesser, J. 2265
Fel'fandbein, P. S. 2527
Felicetti, L. 657
Fellay, D. 2583 Felicetti, L. 657 Fellay, D. 2583 Felicettl, L. 65/ Fellay, D. 2583 Fellenberg, G. 3721, 4500 Fenster, C. R. 7702 Feofilova, E. P. 7738 Feofilova, G. F. 5438, 5439 Ferauge, M. T. 4152 Ferguson, A. C. 2131, 4134 Ferguson, T. U. 1434 Fernandes, P. D. 2896, 4381, 5890, 5911, 7760 Fernandez-Arias, H. 5246 Fernández-Borrero, O. 9167 Fernandez, M. 1453 Fernández, R., M. 8787 Fernández, R., M. 8787 Fernando, H. E. 8143 Fernando, H. E. 8143 Fernando, S. T. 8832 Fernando, S. T. 8832 Fernander, G. M. 1580 Ferrante, G. M. 1580 Ferrante, O. 4708 Ferrante, G. M. 1580 Ferrante, O. 4708 Ferrari, F. 772 Ferrari, J.-P. 2839 Ferraro, G. E. 777 Ferré, J. 4065 Ferree, D. C. 3387, 3389, 3396 3408 3396, 3408 Ferreira, A. A. 5853 Ferreira, A. A. 5853 Ferreira, J. J. 1024 Ferreira, I. A. B. 9172 Ferrer, M. M. de 3944 Ferris, J. M. 243 Fetvadzhieva, N. 6734 Feucht, W. 4240, 5705, 8442, 8444 Feuillat, M. 4360 Fewkes, D. W. 9256 Fick, G. W. 1675 Fideghelli, C. 75, 1814, 1815, 3499, 3579, 3592 Fiedler, W. 36, 37, 38, 916, 8359 8359
Field, R. J. 195
Fieldgate, D. M. 7388
Fierlinger, P. 4556
Figeuiredo, P., 5814
Figier, J. 4642
Figuerredo, I. B. 359
Figueroa R., M. 8053
Figurkin, B. A. 8023
Filani, G. A. 3193
Filby, R. H. 6293
Filgueira, F. A. R. 2112
Filinova, N. P. 5106
Filippov, L. A. 913, 4979, 8267
Filippova, G. G. 3806 8267 Filippova, G. G. 3806 Filiti, N. 482, 1023, 6583 Fimiani, P. 6377 Finch, S. 8625 Finn, R. F. 99 Finnegan, R. A. 4909, 4910

Finney, D. J. 3295 Fiore, M. 5231 Fiorino, P. 83, 505, 1013, 1015, 2423, 2425, 4246, 4247 4247
Firichenkov, S. T. 8348, 8366
Firman, I. D. 1540, 2451
Firn, R. D. 3719, 4514
Fischer, B. 1949, 8614
Fischer, B. B. 452
Fischer, H. 85
Fischer, P. 8847
Fischer, R. A. 5998, 8711
Fisenko, V. Yu. 8508
Fish, F. 2361
Fisher, J. B. 4511 Fisher, J. B. 4511 Fisher, J. R. 5087 Fisher, J. R. 5087 Fisher, M. A. W. 4911 Fisher, N. M. 7646 Fisher, R. W. 7580 Fishman, G. M. 7151 Fiskell, J. G. A. 3683 Fitch, L. B. 524 Fitz, D. B. 9076 4918 Fitz, D. B. 9076 Fitzgerald, R. D. 3912 Fiveland, T. J. 3731, 3821 Flachsbart, E. 2212 Flaherty, B. 2505, 3331 Flaherty, D. 1920 Flanzy, M. 3601 Flanzy, M. 3601 Flechtmann, C. H. W. 4065 Fleeker, J. R. 7500 Flegg, P. B. 4598, 6957 Fleisher, A. Yu. 2322 Flémal, J. 3261 Flemer, W. 6211 Flemer, W., III. 2978 Fleming, A. L. 5974 Fleming, G. A. 8308 Fleming, J. W. 595, 1221. Fleming, G. A.
Fleming, J. W.
595, 1221,
4355, 5993
Flentje, N. T.
Fletcher, A. J.
Fletcher, J. S.
2298, 8955
Fletcher, J. S. Fletcher, A. J. 2298, 8955 Fletcher, J. S. 2298, 8955 Fletcher, J. T. 1967, 5400, 5409, 7835 Fløistad, J. 3759 Flom, M. S. 5468 Flood, A. E. 3959, 7623 Flores Caceres, S. 6440 Flores F., A. 5794 Flores, I. 5794 Flores, I. 5794 Flores, M. C. 3174 Flores, S. 9258 Fluck, R. C. 6052, 9103 Fock, H. 2915 Fodor, B. 7014 Fogel', V. A. 3029 Foglian, G. 5853 Fogliata, F. A. 6436 Foksha, M. G. 1094 Földen, D. 6315 Foksha, M. G. 1094 Földen, D. 6315 Folk, G. 7046 Folley, R. R. W. 2486, 8349 Folwell, R. J. 5144 Fomenko, K. P. 782 Fomenko, L. S. 5700 Fomenko, O. A. 4963 Fomin, E. M. 2918 Fomin, P. I. 6079 Fomina, O. G. 6079 Fong, H. H. S. 2343, 2344, 2347, 5532 Fonnesbech, M. 6205, 6206 2486, 8349 Fong, H. H. S. 2343, 2344, 2347, 5532

Fonnesbech, M. 6205, 6206

Fonseca, H. 2037, 2038, 8159

Fonseca, J. P. da 6351

Fontana, A. 7435

Fontanazza, G. 7436

Fontes, M. R. 6800

Foote, M. 7721

Forche, E. 8442

Ford, E. J. 3316

Ford, H. W. 9081

Ford, T. W. 163

Forde, St. C. M. 4071

Fordham, R. 8264

Fordyce, C., Jr. 4603

Forer, L. B. 2929

Forest, J. C. 196, 2029

Forkmann, G. 6997

Fornel', S. M. 4190

Forostyan, Yu. N. 1923 Forrence, L. E. 222, 448 Forrest, J. E. 7975 Fors, A. L. 4105 Forsberg, J. L. 2241, 5423 Forshey, C. G. 488, 1785, 5769, 8363 Forster, H. 7788 Forsyth, F. R. 3529, 5695, 6688 Forsyth, J. B. 5553, 5798 Forsythe, H. Y., Jr. 4289, 8499
Fort, G. 5839
Fortanier, E. J. 7912
Fortes, J. M. 1613, 4074
Fortusini, A. 1117, 5853
Foschi, S. 5734, 6820
Foster, H. L. 8289
Foti, S. 679, 2159, 5159
Fouly, M. M. El 1122
Founk, J. 3777
Ecuptain D. W. 3644 Founk, J. 3777 Fountain, D. W. 3644 Fouqué, A. 377, 822, 1523, 2434, 4117, 5597, 5598, 5646, 9122, 9123, 9124 Fournet, A. 1428 Fournet, J. 1289, 4548, 5329, 6051, 7823 Fouse, D. C. 4806
Fowden, L. 1702, 6236, 7693
Fowler, M. W. 7741
Fox, C. J. S. 7657
Fox, R. D. 872
Fox, R. L. 7629
Foxton, G. 4982
Foy, C. D. 5974
Foy, C. L. 3, 123
Foyet, M. 843, 3982
Frà, A. Dal 6806 Fra, A. Dal 6806 Fracassini, D. S. 5175 Fraer, M. Sh. 883 Fraeyhoven, F. H. 1674 France, Institut de Recherches Agronomiques Tropicales et des Cultures Vivrières 754, 3605, 5647 France, Institut de Recherches sur le Caoutchouc en Afrique 3250, 9205 France, Înstitut National de la Recherche Agronomique 9109 Franceschetti, U. 7868 Franchuk, E. P. 2564, 2674, 2698 2698 Francia, E. 5703 Franciosi T., R. 1500 Francis, F. J. 1865, 8958 Francis, H. 5497 Francis, H. L. 3989, 5564 Francis, M. J. O. 3036, 4747 Franck de Soldi, C. L. 5596 Francki R. I. B. 420, 421 Franck de Soldi, C. L. 559
Francki, R. I. B. 420, 421
Franco, C. M. 8671
Franco F., H. 5651
Francois, L. E. 2161
Frank, J. H. 8243
Frank, J. R. 8
Frank, R. 1173
Franke, W. W. 2951
Frankel. R. 7870
Frankel, R. 8872
Frankel, A. 5886 Frankel, R. 8872 Franken, A. A. 5886 Franklin, E. W. 1801, 3813 Franz, C. 4743, 6263 Franz, G. 7098 Franz, J. M. 4930 Franz, W. 693, 5393, 8047 Frappell, B. D. 6878 Fraser, D. E. 1219 Fredericq, H. 5687 Fredon, J.-J. 8639 Freeman, G. G. 1989, 3934 Freeman, G. G. 1989, 3934 Freeman, G. H. 8287 Freeman, G. H. 8287 Freeman, J. A. 8500 Freeman, K. C. 4091 Freeman, L. K. 2171 Freeman, R. N. 2185 Fregoni, M. 558, 4337, 5046 Freidrich, H. 9027 Freire, R. 308 Freitas, L. M. M. De 1573

Frémond, Y. 9147 French, N. 4710, 8954 French West Indies, Institut National de la Recherche National de la Recherche Agronomique 5668 Frenhani, A. A. 4532 Frenkel, C. 88, 7462 Frenz, F.-W. 1162 Fretz, T. A. 439, 2171, 2986, 3305, 4614, 4693, 8297, 8853 Frey, G. 6009 Frey, L. 8913 Frey, L. 8313 Freydier, M. 7357 Freyre, R. H. 1422 Fric, J. 6281 Fric, V. 1420, 1421, 6280 Frick, E. L. 2576 Fridmann, M. 2453 Fridrich, J. H. 5769 5769 Friedrich, A. 47
Friedrich, G. 900
Friedrich, H. 6290 Friend, J. 7981 Frihart, C. R. 219 Friharf, C. R. 219
Friis-Nielsen, B. 6479
Frish, E. V. 3526
Fritsche, G. 261
Fritzsche, G. 8846
Fröhlich, H. 1987, 5889
Frowd, J. A. 3940, 3941
Fry, P. R. 4453, 7474, 7631
Frydrych, J. 4422
Fryer, J. D. 7277
Fuchs, A. 4912
Fuchs, T. W. 7669
Fuchs, Y. 1703, 2069
Fudl-Allah, A. E. A. 2391
Führer, H. 3076
Fujii, S. 6022 Fudl-Allah, A. E. A. 2391
Führer, H. 3076
Fujii, S. 6022
Fujii, T. 3567
Fujiimoto, Y. 1698, 2704, 2851, 3329
Fujimura, T. 5425
Fujino, M. 5425
Fujino, M. 5425
Fujiwara, A. 5933
Fukai, N. 8071
Fukatsu, R. 1999
Fukuda, M. 5288, 7744
Fukui, H. 7157, 8093, 9084, 9085 9085 9085 Fukunaga, E. T. 5588 Fukushima, H. 3160 Fuleki, T. 5877 Fuller, G. L. 194, 3693 Fuller, W. A. 694 Fullilove, H. M. 4542 Fulton, J. P. 2020 Funaba, M. 6826 Fundación Shell 107, 228, 1253 5298 6807 6921 Fundación Shell 107, 228, 1253, 5298, 6807, 6921, 7187, 7203
Funk, D. T. 5067
Furber, M. J. 2757
Furness, W. 6029
Furon, V. 1591
Fursa, T. B. 4461
Furukawa, H. 6282
Furukawa, J. 8938
Furundžić, M. 6588, 7317 Furundžić, M. 6588, 7317 Furund, T. 1326, 3007, 7847 Furuya, T. 4766, 5529 Futral, J. G. 4542 Fuzita, M. 7419 Fuzita, M. 7419 G., W. J. 3269 Gaalen, H. J. van Gaard, G. 5281
Gaastra, P. 2498
Gabai, M. 3095
Gabbrielli, R. 5726
Gabelman, W. H. 2138, 2142, 5902 Gabrichidze, S. Sh. 2982 Gabrichidze, Z. Sh. 7959 Gabrichidze, S. Sh. 2982 Gabrichidze, Z. Sh. 7959 Gabrielli, L. F. 5837 Gabriels, R. 6167 Gabrielson, R. L. 4709, 7656 Gadallah, A. I. 1008, 3455 Gadella, T. W. J. 7880 Gadgil, V. N. 726 Gadzhieva, I. Kh. 1320 Gadzhonov, I. 692, 1186, 7814

Author Index Gadzhonova, P. 4417
Gafarov, B. Kh. 6062
Gafurova, V. L. 1768, 8396
Gaggelli, D. 5396
Gagnard, J. 2640
Gaïdamak, V. M. 6924
Gaïllard, J. P. 1608
Gaind, K. N. 7934
Gaines, T. P. 6067
Galbraith M. N. 8036 Galing, T. P. 6067 Galbraith, M. N. 8036 Galil, J. 1811, 2636 Galindo, J. 4531 Gallagher, J. E. 6778, 8914 Gallagher, P. A. 5389, 6937, 7783, 7785 Gallander, J. F. 4235 7783, 7785 Gallander, J. F. 4335 Gallego M., F. L. 73 Galletta, G. J. 1065 Galli, F. 5563 Gal'per-Blichenko, E. M. 1902 Gal'per-Blichenko, E. M. 1 Galston, A. W. 2058, 6235 Galun, E. 2201 Galuszka, E. 2908 Galvão, J. D. 1208 Galyaeva, N. N. 7110 Gamassy, A. M. El 2167, 2168 2168 Gamayunova, M. S. 1240 Gambi, O. V. 5726 Gamborg, O. L. 1306, 4590 Gambrell, C. E., Jr. 1830, Gambrill, R. G. 4309 Gámez, Ř. 6845 Gamez, R. 6845 Gamkrelidze, G. L. 3278 Gammeren, J. van 8406 Gancheva, I. 7538 Gandy, D. G. 8825 Ganeva, D. 3730 Ganguly, S. N. 1053, 3011, 8032 8032
Ganguly, T. 3011
Gangwar, B. M. 8463
Ganje, T. J. 440
Ganney, G. W. 702
Ganry, J. 6386
Gapiński, M. 676, 700, 701
Gapp, S. 7074
Gaprindashvili, G. V. 560
Garan'ko, I. B. 4552
Garber, K. 865
Garber, M. J. 6912
Garbuzova, V. M. 8018
García, B., J. 4047
García Espinosa, R. 3249 García, B., J. 4047 García Espinosa, R. 3249 García-Estrada, M. G. 308 García, G. 8647 García, J. G. L. 3679, 3699, 3700 Garcia-Jalon, I. 1453 Garcia R., F. 5649 García Reyes, F. 5649 Garcia, V. 4041 Gardan, L. 5040 Gardner, B. R. 4452 Gardner, W. R. 1181, 2790, Gardner, B. R. 4452
Gardner, W. R. 1181, 2790, 3713
Garg, I. D. 3684
Garg, O. P. 671
Garg, R. C. 7758
Garibaldi, A. 2221, 4538, 4619
Garman, C. F. 978
Garmi, I. 5058
Garmi, I. 5058
Garmi, I. 7102
Garnsey, S. M. 3125
Garofalo, F. 4739, 6610
Garrard, L. A. 1647
Garretsen, F. 8744
Garrido, J. 1904
Gärtel, W. 5134, 5853
Gartner, J. B. 1321, 2276
Garunov, G. G. 1758
Garza Falcón, G. 5794
Garzoli, K. 879
Gasanov, Z. M. 2431
Gascho, G. J. 4088
Gascon, J.-P. 8164
Gašpariková, O. 3749
Gasparyan, O. B. 5487
Gasparyan, O. B. 5487
Gasparyan, M. L. 7714
Gasyuk, A. N. 1048

Gates, J. E. 7381 Gates, L. F. 3789 Gathercole, F. J. 74, 3459, 4253 Gatica, J. C. 4258 Gaur, S. K. S. 3691 Gauss, J. F. 2864 Gauss, J. F. 2864
Gautham, R. C. 206
Gautheret, R. 8597
Gautier, M. 456, 2638
Gava, A. J. 4585
Gavalas, N. A. 864
Gavarra, M. R. 2437
Gavrilov, G. P. 5112, 6736
Gavrilova, L. 8533
Gavrilovié, M. 2522, 3377, 3505 3505 Gavrilovic, M. D. 3382
Gawaad, A. A. A. 201
Gawaad, M. M. A. 3023
Gay, A. P. 4920
Gay, G. 1126
Gay, J. D. 2791
Gayler, K. R. 1644, 1645, 2475, 6448
Gazit, S. 2378, 3093, 5594
Gazzar, A. M. El 1477
Gee, G. W. 8755
Gee, H. 4676
Geennen, J. E. E. 6577
Gegechkori, M. T. 1167
Geier, P. W. 2501
Geiger, D. R. 5987
Geiselman, C. W. 6320
Geisenberg, C. 6708
Geisman, J. R. 1699
Geissler, T. 119, 5950
Geissman, T. A. 2825, 6286
Geldermalsen, M. van 4990
Gel'fandbein, P. S. 2588
Gellert, E. 3017
Gellért, M. 6059
Gellért, M. 9038
Gellini, R. 5592
Gelmond, H. 3645, 3677
Gemidzhiev, G. 688
Genchev, S. 8738
Gendraud, M. 2749
Gendy, S. A. El 2167
Gendy, S. A. El 2167
Gendy, S. A. El 2168
Genecidi, G. S. 4384
Gener, P. 7228
Genest, K. 9025
Genge, S. 8699
Genin, S. A. 7066
Genkel', P. A. 2802
Genkov, G. 6793, 6794
Gentoy, P. 9189
George, L. 9022
George, W. L., Jr. 5970
Georgiev, G. H. 2067
Georgiev, G. H. 2067
Georgiev, G. H. 2067
Georgiev, G. H. 2067
Georgiev, G. Kh. 2067
Georgiev, G. Kh. 2067
Georgiev, G. Kh. 2067
Georgiev, G. Kh. 2067
Georgiev, G. N. 4311
Georgiev, S. 2337
Georgiev, G. N. 4311
Georgiev, M. 1171, 6793, 6794 Georgieva, M. K. 7780 Georgieva, M. K. 7780 Georgieva, N. 257 Georgieva, R. 257 Georgieva, V. 3800 Georgieva, Y. D. 7692 Georgobiani, E. L. 6750 Geraci, G. 817 Geraldson, C. M. 4570, 6479, 8860 8860 Gerasimenko, I. I. 1454 Geraskina, G. V. 2897 Gerber, B. 1919 Gerder, B. 1919 Gerdemann, J. W. 7132 Gerdts, M. 1812 Gerginova, Ts. 8386, 8387 Gerin, G. 481 Gerlach, W. 2267, 8047 Gerloff, G. C. 1181, 2790, 5974

German Federal Republic. Biologische Bundesanstalt für Land-und Forstwirtschaft in Berlin und Braunschweig 4298, 6504, 7063, 7599, 8837 German Federal Republic, Bundesanstalt für Qualitätsforschung Pflanzlicher Erzeugnisse, Geisenheim/Rheingau 8284 German Federal Republic, Deutscher Pflanzenschutzdienst 6506, 6669, 7064, 8579 German Federal Republic, Fachhochschule Weihenstephan 7310, 7600, 7844 German Federal republic, Hessische Forschungsanstalt für Wein-, Obst- und Gartenbau Geisenheim (Rheingau) 8315 German Federal Republic Institut für Angewandte Botanik der Universität Hamburg 5094, 6481, 6505, 6959, 7070, 7597 German Federal Republic, Landespflanzenschutzdienst Rheinland-Pfalz 7309, 7598, 7843, 7964, 8481 German Federal Republic, Staatliche Lehr-und Versuchsanstalt für Wein und Obstbau, Weinsberg 4943 German Federal Republic, Staatliche Lehr-und Versuchsanstalt für Weinund Obstbau, Weinsberg Germanier, R. 2614
Germing, G. H. 1974, 3314
Gerrits, J. P. G. 3827, 4599, 6123, 6952
Gersbach, K. 5784
Gerson, U. 1490, 3983
Gertman, E. 2069
Gesheva, R. 5799
Getzendaner, M. E. 1770
Getzin, L. W. 1255
Geyer, W. A. 4924
Geypens, M. 6920, 8791
Ghai, G. 3210
Ghaleb, H. 3023
Ghana, Cocoa Research
Institute 7177
Ghandour, M. A. El 2842, 8756 5072 8756 1432 Ghani, A. Gharbo, S. A. 6320 Ghatak, J. 6271 Ghena, N. 7342 Gheorghitá, M. 7549 Gheorghitá, E. 8474 Gherghit, A. 5706, 7373, 8413, 8471 8471 Ghose, S. K. 5026 Ghosh, B. 3219 Ghosh, B. N. 22, 1589, 4865 Ghosh, J. J. 3208, 8128 Ghosh, S. K. 889, 7086 Ghosh, S. F. 4991 Ghung, H. J. 1308 Giacomelli, M. 8713 Giannattasio, M. 8598 Giannattasio, M. 8598
Giannotti, J. 17
Gianotti, J. 6608
Giaquinta, R. 5987
Giardini, L. 5939
Gibbon, J. M. 4385
Gibbs, M. 3740, 8724
Gibbs, M. M. 480
Gibeault, V. A. 7916
Gibson, M. R. 3969, 6293
Gibson, R. A. 250, 251, 2127
Giddens, J. 1821
Giessen, A. C. van der 3325
Gigliotti, A. 5878 Giannattasio, M. 8598

Gil, G. F. 4280, 4357, 8469, 8470 Gilberston, R. L. 6202 Gilbert, J. 757 Gilbert, R. I. 7872 Gilbertson, G. 8989 Gilder, J. 7691 Gilder, J. 7691 Gilfillan, E. C. 410 Gilfillan, E. M. 1502 Gilford, J. McD. 8906 Gilliov, B. Kh. 2535 Giliomee, J. H. 4950, 7394 Gill, D. L. 751, 2205, 5412, Gill, D. L. 751, 2205, 5412, 6240
Gill, H. S. 416, 3656, 5977, 6808, 9233
Gill, J. L. 6018
Gill, L. S. 1318, 1319, 1413
Gillard, A. 4581
Gillard, A. 4581
Gillard, A. 4929
Gilman, K. F. 2997
Gilmartin, A. J. 6199
Gilmer, R. M. 470, 962, 5853, 5854
Gilpatrick, J. D. 43, 92, 8475 5854
Gilpatrick, J. D. 43, 92, 8475
Gindich, N. N. 3972
Ginn, C. R. 3846
Ginoux, G. 3554, 5348
Ginoux, J. P. 6836
Gins, V. K. 3689
Ginsburg, L. 5008, 5145
Ginsburg, S. Ya. 7559
Ginterová, A. 8830
Ginzburg, C. 6174
Giorradze R. G. 364 Ginzburg, C. 6174
Giorgadze, R. G. 364
Girard, M. 9109
Girenko, M. M. 1941, 4401
Girling, D. J. 8240
Girolami, L. 4346
Girotto, G. 6901
Gisvold, O. 3074
Gitsba, D. K. 5523
Giudice, P. M. Del 2036
Giudice, V. Lo 4792, 5552,
8092
Giudici de Nicola, M. 6994 Giudici de Nicola, M. 6994
Giuliani, G. 1806
Giulini, p. 320
Giunchedi, L. 3944
Giurea, M. 7373, 8413
Giustina, W. della 3627
Gladyshev, A. I. 7108
Glasgow, S. K. 1007
Glassman, S. F. 3979
Glasziou, K. T. 1644, 1645, 2475, 6448, 8191
Glaze, N. C. 6067, 6904
Glazurina, A. N. 737
Glendinning, D. R. 2445
Glenn, W. K., Jr. 2995
Glennie, C. W. 2331
Gleye, J. 8027
Glitis, M. 7046
Globerson, D. 3677 Giudici de Nicola, M. 6994 Glitia, R. 7457
Glitia, M. 7046
Glitia, M. 7046
Globerson, D. 3677
Glonti, Ts. F. 7159
Glória, N. A. da 3260
Glória, N. A. da 7287
Glover, J. 404, 7261
Glushchenko, E. Ya. 2891
Gnaegi, F. 1115
Goad, L. J. 4042
Goas, G. 7739
Goasquen, J. 6777
Goble, H. W. 1173
Gochnauer, C. 5991
Goddrie, P. D. 6529, 6530
Godefroy, J. 5551
Godfrey-Sam-Aggrey, W. 362
Godin, V. J. 355
Godoy H., D. 3471
Godoy Junior, C. 3196
Godoy Júnior, C. 9162
Goedegebure, J. 7331
Goedheer, J. C. 1673
Goepel, C. 7104
Goethals, M. 2920
Goetze, N. R. 7916
Gogoi, S. C. 6456
Goh, C. J. 6210
Gohen, A. C. 5853
Gohr, H. 5950

Golan, J. 3583 Golato, C. 2143 Gold, A. H. 1294, 3803, 6095 Goldberg, D. 3624, 4376, 4448, 4537, 6891 4448, 4537, 6891 Goldblatt, P. 6182 Golden, A. M. 2265 Golden, L. E. 9247 Goldschmidt, E. E. 2399 Goldschmidt-Reischel, E. 4305, 8368 Goldschmidt-Reischel, E. 4305, 8368
Goldstein, L. D. 6020
Goldwasser, E. 3784
Goldyban, N. P. 8794
Goliadze, Sh. K. 3129, 4801, 7144, 8060, 9078
Goliadze, Sh. K. 3129, 4801, 7144, 8060, 9078
Goliak, P. I. 5121
Golisz, A. 8433
Gollifer, D. E. 7076
Golodriga, P. Ya. 6723, 6726
Golomb, A. 3993
Golovanov, I. S. 2513
Goltz, S. M. 1250
Golubinskaya, N. S. 7957
Golyshkin, L. V. 8933
Gomaa, N. 6470
Gomes, F. P. 1573
Gomes, F. R. 1613, 3697
Gomez-Alvarez, F. 8214
Gómez, E. 4357
Gomez, J. B. 6420
Gómez P., J. F. 5651
Gomez, R. E. 8054
Gommers, F. J. 283
Gonçalves, J. R. C. 8181 Gonçalves, J. R. C. 8181
Gonchar, A. F. 581
Gonzales, C. S. 2437
González, A. G. 308, 8000
Gonzalez, C. 6554
González, A. G. 308, 8000
Gonzalez, C. 6554
González, J. 4055
González, J. 4055
González, J. A. 8690
González, J. A. 8690
González, J. T. 6729
Gonzalez, O. N. 4527
Gonzalez, O. N. 4527
Gonzalez, G. T. 6729
González, S. 7303
González, S. 7303
González, S. 7303
González, S. 7303
González, G. 5635
González, J. L. C. 5620
Goo, T. 4878, 6158, 6418
Good, G. E. 4021
Good, J. M. 7771
Goodale, J. H. 6334, 8099
Goodenough, P. W. 7798
Gooding, H. J. 7520
Goodman, N. 3762
Goodman, N. 3762
Goodwin, P. B. 4332
Goodwin, T. W. 4042
Goos, U. 1027
Gopal, H. 1438
Gopal, N. H. 8158
Gopal, P. P. S. 7083
Gopalan, M. 838
Gopalan, M. 838
Gopalan, M. 838
Gopalan, K. W. 3030
Goplen, S. P. 8294
Gorban', I. S. 5457
Gorbanov, S. 7630
Gorbunov, A. B. 2690
Gordon, A. 4332
Gordonov, M. D. 1730
Goren, R. 368, 4014, 4807, 7149, 7150, 8083
Görgen, W. 3600
Gorini, F. L. 2600
Gorkavenko, E. B. 1921
Gorlanov, N. A. 3711
Gormley, R. 6601, 6602
Gormley, T. R. 2900, 6937, 7818 7818 Gorer, G. J. M. A. 6821 Gosen, O. 5126, 6730 Gosnell, J. M. 412, 7262, 8199, 8209 Goss, R. L. 4671 Goswami, A. M. 8321 Gotan, S. M. 7451 Goto, M. 2083, 5561 Goto, Y. 6453 7818

Gough, R. E. 6524, 8419 Gould, W. A. 2785, 2862 Gourley, C. O. 242
Gourret, J. P. 5246
Govers, A. 5228
Govers, A. 5228
Govindachari, T. R. 3076
Govindaswamy, C. V. 1189
Govindu, H. C. 8017
Gowans, K. 8913
Gowda, B. K. L. 8215
Gowder, R. B. 9106
Gozin, A. A. 1869, 6189, 6246
Graaf, R. De 1293
Graaff, F. de 5428
Graaff, J. de 5427
Gracia, O. 5347
Graciani Constante, E. 2427
Gracz-Nalepka, M. 8774
Graff, O. 5847
Graham, A. E. 7039
Graham-Bryce, I. J. 4490
Graham, H. N. 1665
Graifenberg, A. 4624
Grainger, V. F. 7641
Graman, J. 5268
Grambow, H. J. 1306
Grambow, H. J. 1306
Gramolina, T. M. 8645
Gramond, J. P. 8102
Gran, L. 8033
Grandi, R. 3064
Graner, E. A. 9162
Granett, A. L. 1226, 6860
Granges, J. 2529
Granhall, I. 2916
Graniti, A. 4478, 4487, 4928
Grant, M. S. 6463
Grant, W. F. 1346 Gourley, C. O. 242 Gourret, J. P. 5246 Granges, J. 2529
Granhall, I. 2916
Granhall, I. 2916
Grantiti, A. 4478, 4487, 4928
Grant, M. S. 6463
Grant, W. F. 1346
Grasselly, C. 1817
Grassi, C. J. 7358
Grassi, G. 3579
Grassia, A. 5005, 8796
Grasso, S. 797
Grau, I. 3853, 7639
Grauslund, J. 1776, 3360, 3423, 8403
Gray, J. C. 2030, 8700
Grazen, A. M. 4518
Graziano, M. N. 777
Greathouse, D. C. 8137
Greaves, M. P. 4938
Grebinskiï, S. O. 154
Greeu, V. 7556
Greef, J. A. De 3716, 7715
Greeley, L. W. 1874
Green, A. H. 4876
Green, A. H. 4876
Green, J. H. 2089, 3761, 5166, 5371
Green, J. H. 2089, 3761, 5166, 5371
Green, J. Jr. 243
Green, T. R. 5280, 8700 Green, R. J., Jr. 243 Green, T. R. 5280, 8790 Green, V. E., Jr. 4830 Greenberg, S. 7459 Greene, D. W. 976, 3495 Greene, G. L. 4465 Greenham, D. W. P. 866, 866, 4121
Greenway, H. 7805
Greenwood, D. J. 2739, 4121
Gregorini, G. 139, 717
Gregory, L. E. 2801
Gregory, P. 5986
Gregory, P. H. 386
Greidanus, T. 1062
Greig, J. K. 2091, 5903
Grellet, F. 8641
Greppin, H. 129
Gressel, J. 2201
Gresshoff, P. M. 4582
Gretzmacher, R. 6796, 8618
Grevtseva, E. I. 5699
Grewal, M. S. 6242
Greyson, R. I. 1300, 2884, 3816
Gribanovskiř, A. P. 4194 4121 3816 Gribanovskiř, A. P. 4194 Grice, E. B. Le 5470 Grice, W. J. 5660 Grieg, J. K. 4924 Grierson, W. 1505, 2409, 4015, 4017, 8098 Griffin, M. J. 5409

Griffith, G. R. 3028 Griffiths, E. 836, 3201 Griggs, W. H. 4280, 7439, 8469, 8470 Grigorov, S. P. 5079 Grill, F. 438 Grill, R. 4937 Grimm, G. R. 6348 Grinblat, U. 3103 Grinenko, V. V. 5700, 5701, 6727, 8508 Grinenko, V. V. S. 700, S. 701, 6727, 8508
Grishanovich, A. K. 5817
Grishin, M. A. 6364
Grisse, A. De 7800
Grisse, A. T. De 4581
Grittsishin, I. S. 8488
Grittner, I. 8441
Gritton, E. T. 2047, 4501
Grivell, C. J. 421
Grizebakh, G. 3282
Grimevski, V. 4255, 6649
Groce, J. W. 9024
Grodzinskii, D. M. 6097
Groen, N. P. A. 7899
Groenewegen, A. N. 2735
Groenewegen, C. A. M. 749, 2156, 2197, 2226, 7292
Grohmann, A. A. 4473
Grolleau, J. 2640
Gromova, L. I. 6305
Gromová, Z. 1262, 1263
Grosclaude, C. 93, 6659, 8476
Grosseta, T. 6490
Gross. D. 2308, 8248 Grošeta, T. 6490 Gross, D. 2308, 8248 Gross, J. 3095 Grossman, R. 6619
Grossman, R. 6619
Grossman, R. 865, 7796
Groven, I. 3518, 3523
Grover, R. K. 4573, 6106
Grozov, D. N. 5724
Gruber, P. J. 4480
Grübner, P. 8826
Grudev, E. S. 5340
Grunwald, C. 6828
Gruppe, W. 7427, 8431, 8444
Grylls, N. E. 6846
Gryuner, A. M. 4187
Guadagni, D. G. 5368
Guadalupe, R. 1538
Guantes, M. M. 7748
Guardiola, J. L. 215
Guariento, M. 2781, 5373
Guazzelli, R. J. 8671
Gubbels, G. H. 2895, 5186
Gubko, V. A. 6736
Gudauskas, R. T. 5449
Gudsteinsson, K. 5428
Guédez, A. M. A. H. 8173
Guédez, M. A. H. 1 7992
Gueldner, R. C. 2306
Guelfat-Reich, S. 8572
Guénin, G. 1605, 9185
Guenther, E. 8989
Guérout, R. 826, 1612, 6387
Guerrier, D. 780
Guerrier, D. 8926
Guerrier, D. 8926
Guerriero, R. 6376
Guez, M. 182
Gugenhan 2218, 2282, 6143
Guha, M. M. 5643
Guillaumin, J.-J. 823
Guillot, A. 3812
Guilton, Y. 8641
Gullino, G. 2221
Gumbaridze, N. P. 7484
Gumpf, D. J. 1168, 4635
Gunasekaran, C. R. 1279
Gunasekaran, M. 2616
Gunasena, H. P. M. 5257
Gunn, E. 8375
Gunning, B. E. S. 1673
Gunzenhauser, E. 742
Gupta, B. D. 2754
Gunta, B. M. 3665 Gupta, B. M. Gupta, B. P. 3665 3476 Gupta, D. D. 9082 Gupta, D. N. Gupta, M. L. 9228 Gupta, M. N.

Gupta, M. P. 3969, 6293 Gupta, N. K. 3030 Gupta, N. K. 3030 Gupta, O. P. 8091 Gupta, P. C. 1426, 3070, 9028, 9029 Gupta, P. N. 2525, 8321 Gupta, R. 767, 3039, 5500, 6322, 8994 6322, 8994
Gupta, R. K. 1438
Gupta, R. L. 7934
Gupta, S. 726, 8010
Gupta, S. C. 3783
Gupta, S. K. 1416, 1489, 8232, 8233, 9033
Gupta, S. R. 526
Gupta, U. S. 2740
Gupta, V. K. 7706
Gupta, V. F. 235
Gur, A. 2553, 6479
Gur, I. 4653
Gurabanidze, M. N. 3275 Gurabanidze, M. N. 3275, 9275 Gurevitz, E. 94
Guseinov, B. A. 1982
Gushchin, M. F. 973
Gushchin, M. Yu. 4961
Gus'kova, I. N. 6283, 8988
Gusser, H. 7784
Gustafson, C. D. 2376
Gutfinger, T. 8424
Guthrie, F. E. 2501
Gutierrez, A. 781
Gutiérrez, J. 5623
Gutierrez, L. E. 8159
Gutiérrez Villalta, D. 6055
Guttormsen, G. 884, 885, 2738, 4410 Gurevitz, E. 94 2738, 4410 2738, 4410
Guttridge, C. 4329
Guyana, Sugar Experiment
Station 9220
Guzman, V. L. 5942
Gvamichava, N. E. 7717
Gvasaliya, V. P. 3284, 8263,
8267 George Resident States of States Resident Reside Gvozdeva, Z. V. Haber, Z. 5428 Habermann 6138 Habib, A. 799, 3134 Habib, A.-A. 1514 Habib, A.-A. M. 778 Habib, A. T. 8259 Habicht, G. 7989 Habjørg, A. 2916 Habjørg, A. 3885 Hackett, W. P. 4610, 4685, 6217 Hackland, B. A. 1468 6217
Hackland, B. A. 1468
Hackler, L. R. 5978
Hadačova, V. 5266
Hadačová, V. 5999
Haddad G., O. 8053
Hadfield, W. 9271
Hadley, G. 5459
Haeder, H. E. 1295, 8308
Haeger, J. S. 5541
Haenchen, E. 2299
Häfliger, E. 6491 Häfliger, E. 6491 Hagan, R. M. 2424, 2630, 4239, 6355 4239, 6355 Hagedorn, D. J. 7729 Hagel, G. T. 1216 Hagemann, R. 5407 Hagen, A. F. 3709 Hagen, C. W., Jr. 284 Hagen, L. J. 11 Haggag, M. Y. 4756, 7099, 8006

Author Index Hagihara, H. H. 4093 Haginuma, S. 5002 Haglund, W. A. 6862 Hagood, M. A. 3309 Hague, N. G. M. 2484 Hahlbrock, K. 4732, 8983 Hahn, D. 6395 Hahn, M. 1964 Haid, F. 7090 Haigh, W. G. 3333 Hakkaart, F. A. 3873 Hakkaart, F. A. 3873 Halás, L. 7060 Hale, C. N. 8686 Hale, M. G. 3 Hale, R. L. 5929 Halevy, A. H. 1199, 1324, 2239, 2297, 3688, 3920, Halevy, A. H. 4631 Halevy, A. H. 4653, 4655, 5227, 5326, 7949, 8888, 8889, 8890 Haliburton, T. H. 7657 Halim, A. F. 9003 Hall, B. J. 5682 Hall, B. J. 5682 Hall, C. 4445 Hall, C. B. 2848, 5916 Hall, E. G. 518, 1503, 1800, 1916, 4016, 4812 Hall, F. R. 3408, 4214, 4289 Hall, I. V. 105, 534, 2689, 3529, 3532, 6685, 6688, 8408 8498 Hall, J. L. 5282 Hall, M. O. 120 Hall, R. 3325 Hall, T. C. 44 Hall, R. 3325 Hall, T. C. 4484 Hallama, G. 8404 Halliwell, B. 5174 Halperin, W. 3631 Halsey, D. D. 6341 Halsey, L. H. 6060 Ham, P. J. 7955 Hamada, K. 5425 Hamdorf, G. 4949 Hamdorf, G. 4949 Hamdy, M. K. 9179, 9180 Hamed, M. G. E. 1122 Hameed, K. M. 2207 Hamid, B. H. 4875 Hamilton, R. A. 1606, 4821, 5585, 5588 5585, 5588 Hamilton, R. I. 175 Hamilton, W. D. 1323 Hammad, S. M. 630, 5905, 7147 Hammer, O. 3930 Hammer, P. A. 4129 Hammerton, J. L. 1946, 1947 Hammett, H. L. 646 Hammett, L. K. 4319, 6690 Hammouda, F. M. 3023 Hamon, N. W. 3946, 8016 Hámori, J. 6585 Hámori, J. 6585 Hampton, R. O. 1673 Hamuy, Y. 4460, 6827 Han, D. S. 5518 Han, E. D. 475 Han, K. P. 821 Hanada, K. 6815 Hanan, J. J. 1688, 4621, 5401, 8304 Hanaoka, M. 2435, 2461 Hance, R. J. 1051 Hancock, J. G. 2774 Hand, D. W. 3296, 7296 Handel, E. Van 5541 Handreck, K. A. 3173, 816 Handro, W. 7871 Handy, M. F. 2383, 2393, 6342, 6343, 8069 8304 3173, 8167 6342, 6343, 8069 Hannan, M. A. 980 Hannan, A. M. S. 7035 Hanny, B. W. 2306 Hanover, J. W. 2983 Hanras, J. 6698 Hans, A. S. 1378 Hansen, A. P. 4049, 9144 Hansen, C. W. 5541 Hansen, E. N. 8867 Hansen, G. L. 7995 Hansen, G. L. 79 Hansen, H. 6479 Hansen, M. 2489

Hansen, P. 2489, 3414, 5745, 6553, 8403 Hanson, A. D. 259, 260 Hanson, K. R. 1673 Hansson, G. 8308 Hansson, G. 8308
Hanzlíková, A. 189
Haq, F. 7344
Haque, I. 4423
Hara, M. 3005
Hara, T. 4116
Harada, H. 7871
Harada, T. 2080, 4578, 8735
Harakal, Š. 3436
Harata, J. 7410, 7411, 7412
Harborne, J. B. 2331, 8634
Hardone, J. B. 2331, 8634
Hardcastle, W. S. 78
Hardh, J. E. 5678, 7605
Hårdh, K. 2738, 5678
Hardinah, S. 5188
Hardinah, S. 5188
Hardinah, S. 5188
Hardinan, R. 3087, 3088, 5537, 9023
Hardon, J. J. 1602, 9184
Härdtl, H. 6881, 8963
Hardwick, K. 4917
Hardwick, R. C. 2013
Harel, E. 1119
Hardwick I. 9663 Hanzlíková. A. Hardwick, R. C. 2013 Harel, E. 1119 Hargitai, L. 6963 Harkiss, K. J. 2933, 9021 Harkness, R. W. 6325 Harman, G. E. 1226, 6860 Harmon, S. A. 1036, 1845 Harmon, S. A. 1036, 1845 Harmsen, G. 2286 Harnett, R. F. 2499 Harney, P. M. 7867 Harnish, W. N. 1753 Harper, C. W. 1747 Harper, R. S. 7224, 7225, 9211 9211
Harranger, J. 2741
Harranger, J. 2741
Harrell, A. L. 8851
Harries, H. C. 9160
Harrington, J. D. 4371
Harrington, J. D. 4371
Harrington, J. F. 4372
Harris, D. 8063
Harris, F. G. # 5404
Harris, G. P. 6140, 6142
Harris, J. G. S. 3906
Harris, I. 3358
Harris, R. E. 2133, 8507
Harris, R. H. G. 425, 7246
Harrison, B. H. 1340
Harrison, J. G. 5274, 5275
Harrison, M. F. 866, 3299
Harry, R. B. A. 120 Harrod, M. F. 866, 3299
Harry, R. B. A. 120
Hartley, C. W. S. 9182
Hartmair, V. 476, 7585
Hartman, R. D. 2975
Hartmann, C. 8472
Hartmann, H. D. 2752, 3755
Hartmann, H. T. 6378, 9113
Hartmann, M. A. 1960
Hartrath, H. 1301
Hartwell, J. I. 775 Hartwell, J. L. Harun, R. M. R. 4499 Harvey, D. M. 4506 Harvey, I. C. 5859 Harvey, J. M. 2756, 4303, 7542 Harvey, R. G. 4501 Harwood, J. L. 4784 Hase, Y. 7136 Hasegawa, M. 2750 Hasegawa, S. 6367, 8108 Hasegawa, T. 8637 Haskejawa, I. 8637 Haskin, M. 5570 Haskal, A. 8327, 9114 Haskins, F. A. 4 Haspel-Horvatovič, E. 5015 Hassan, E. 2444 Hassan, Y. M. 449 Hasselbach, O. E. 698 Hasselt R. van. 4450 Hasselt, R. van 4459 Hassib, M. 7660, 9008 Hasson, Porath, E. 210 Haston, T. T., Jr. 1464, 8101 Haub, G. 1914 Hauer, B. 5950 Haug, R. M. 2789 Haugh, C. G. 1943

Haun, J. R. 2787, 5402 Haunold, A. 3042, 4749 Haupt, W. 5687 Hauskrecht, I. 6866 Hautke, P. 1421, 6280, 7994 Havelka, F. 6686 Havis, J. R. 3912, 7036 Havliček, V. 2758 Havránek, P. 4444 Hawash, M. 2397 Hawat, H. 7619 Hawbaker, S. D. 88 Hawker, J. S. 7594 Hawkes, J. 552 7594 Hawkes, J. 552
Hawthorne, B. T. 5184
Hawthorne, W. L. 3791
Hay, R. K. M. 3765, 3766
Hayashi, I. 2234, 2235
Hayashi, N. 5498
Hayashi, S. 2651, 3022
Hayden, C. W. 5237
Hayes, A. B. 6852
Hayes, A. G. 1633
Hayes, W. A. 8823
Hayes, J. T. 1682
Hayslip, N. C. 7946
Hayward, A. C. 4636
Hayward, A. C. 4636
Hayward, A. C. 4636
Hayward, P. W. 4813
Háznagy, A. 9034 Hayward, F. W. 4813 Háznagy, A. 9034 Heacock, R. A. 7975 Healey, A. 86 Healey, P. L. 5458 Healy, M. T. 1233 Heath, H. 7067, 7967, 8974, 8975 Heath, H. B. 8973 Heath, J. L. 5795 Hebert, L. P. 6428, 8195, 9266 Hecht-Buchholz, C. 5684 Heck, W. W. 3 Hedden, S. L. 4011 Hedeşan, G. 7426 Hedin, P. A. 2306 4011 Hedni, F. A. 2506 Heemst, H. D. J. van 2793 Heeney, H. B. 3379 Hefendehl, F. W. 3032, 3945, Hegarty, M. P. 6783 Hegarty, T. W. 4916, 6940 Hegari, S. M. 494 Hegae, S. V. 650 Hege, H. 1162, 2497 Heggestad, H. E. 3, 3306, 6152, 8946 Hegwood D. A. 2010 5501, 9000 6152, 8946
Hegwood, D. A. 2010
Heichel, G. H. 3712
Heide, O. M. 7890
Heide, R. Ter 2325
Heide, W. 8285
Heidenz, S. 865
Heilman, M. D. 4921
Heimann, M. 6225, 8921
Hein, K. 4151, 7374
Heinemann, W. H., Jr. 6939
Heinlein, J. P. 3333
Heinrich, G. 9001, 9002
Heinz, D. J. 403, 1646, 2465
Heinze, K. 832 Heinrich, G. 9001, 9002
Heinz, D. J. 403, 1646, 2465
Heinze, K. 832
Heinze, K. G. 4054
Heit, C. E. 6981
Heitz, A. 4887
Heitzman, M. W. 3315
Hejmová, L. 47
Helber, D. 2435
Heller, H. 2404, 3154
Helling, C. S. 3
Hellings, A. J. 868
Hellqvist, H. 4438, 5802
Hellstern, B. 2968
Hellyer, A. G. L. 5470
Helm, W. 1836
Helm, K. 7713
Hemphill, D. D. 'Jr. 1197
Hemphill, D. D., Jr. 1198
Hemstreet, C. 8534
Henderson, C. S. 1654
Henderson, D. W. 7424
Henderson, D. W. 7424
Henderson, S. M. 3048, 9011
Henderson, W. R. 6057
Hendrickx, G. J. 1393

Hendriks, H. 3033 Hendriks, J. P. 2764, 3639 Hendrix, J. E. 3686 Henis, Y. 2239, 7900 Henis, Y. 2239, 7900 Hennerty, M. J. 1785 Henning, G. L. 5569 Henny, R. 3917 Henry, J. E. 2113, 2114, 5908 Henry, L. K. 2347 Hensel, R. 3600 Hensley, S. D. 2472, 8193, 2239 8239 Henson, I. E. 13 Henson, R. D. 2306 Hentig, W.-U. von 6221, 6473, 7047, 8884 Hentschel, G. 1188 Hentschel, H. 7308 Henze, J. 895, 896 Hepler, P. K. 280 Hepler, R. W. 4371 Hepp, E. 476 Herath, H. M. W. 2 Herath, H. M. W. 2 Herath, W. 3739 Herbas A., R 2944 Herczeg, G. 5763 Heredia, A. 4531 Hérédia, N. 3601 Herfis, W. 3643 Hering, M. 113 Hérisset, A. 3962, 3 7103, 7985, 7991 Herklots, G. A. C. 3962, 3963, 6285, 7103, 7985, 7991 Herklots, G. A. C. 5147 Hermann, P. 7931, 8842 Hermey, W. 6496 Hernández, I. 1538 Hernandez, T. P. 626 Hernansáez, A. 2639, 6479, 6631 Herne, D. C. 7580 Herpay, B. 4946 Herregods, H. 4679 Herregods, M. 1787, 1788, 1789, 1790, 1795, 3427, 5822, 6587 Herrers, E. J. 9549 6631 Herrera, E. J. Herrmann, F. 5407, 5411 Herrmann, K. 5691, 5879 Herrmann, K. 5691, 5879 Herth, W. 2951 Hertogh, A. A. De 295, 1362, 5429, 6177 5429, 6177
Hertveldt, L. 5252, 8692
Hertz, L. B. 8497
Hervé, Y. 1170
Hervert, V. 2004
Hervey, A. 8929
Herwig, K. 1217
Herz, W. 2340, 2371
Hesemann, C. U. 6155
Hesling, J. J. 2121, 2464, 3878
Heslop-Harrison, J. 4, 4651, 4661, 5432 4661, 5432 Hess, C. E. 3006 Hess, D. 6475 Hess, D. 6475 Hess, F. D. 628, 8769 Hess, T. 5972 Hess, U. 8041 Hess, W. M. 424, 4928 Hessel, D. 576 Hester 7524, 7525 Hetzel, D. 7995 Heuberger, J. W. 477 Heungens, A. 7942 Heungens, A. 7942 Heursel, J. 7041, 7044, 7944 Heuser, C. W. 523, 3006, 4260 Hévin, M. 8536 Hew Choy Kean 6410 Hewitt, E. J. 2747, 3299 Hewitt, W. B. 5128, 5853 Hewson, R. T. 6879 Hewson, W. B. 1682 Hey, H. 7156 Heydecker, W. 2093, 2094 Heydendorff, P. 7890, 877 Hew Choy Kean 6410 2093, 2094 Heydendorff, R. 7809, 8763 Heyes, J. K. 221 Heymans, A. 4232 Heymans, P. 661, 662 Heyns, C. F. G. 120, 145 Hickey, K. D. 1749, 1750, 3316 Hickman, C. E. 8514 Hiddema, W. O. 7926

908 Hieke, K. 2962, 4694, 4724, 5467 Hield, H. 7059 Hield, H. Z. 5572 Hifny, H. A. A. 2720, 2721 Higaki, T. 7876 Higazy, M. K. 789 Higgins, J. 7626 Higgins, J. 7626 Higinbotham, N. 7304 Hijwegen, T. 6233 Hikichi, M. 4766 Hikino, H. 7999 Hilal, S. H. 4756, 7099, 8006 Hilborn, M. T. 954 Hilborn, M. T. 954 Hildebrandt 6496 Hildrum, H. 3932, 6237, 7953 Hilgeman, R. H. 1476, 1484 Hilgenberg, W. 2915 Hilkenbäumer, F. 894, 5719 Hill-Cottingham, D. G. 49, 8401 Hill, D. S. 8720 Hill, E. C. 4816 Hill, D. S. 8720 Hill, E. C. 4816 Hill, K. 2022 Hill, R. D. 2797 Hill, R. G. 546, 3541 Hills, J. 617, 618 Hillebrand, W. 1901 Hiller, H. 3891 Hiller, R. G. 2026, 8699 Hillier, H. G. 7035 Hillman, J. 5909 Hillman, J. R. 2800, 5940, 8609 8609 Hilton, H. W. 3258, 4886, 6431, 8245, 9241 Hilton, R. J. 3009 Hinckley, G. B. 833 Hindorf, H. 3204 Hines, J. E. 7932 Hino, A. 7325 8609 Hinrichs, H. A. 89, 90 Hintze, S. 2244, 4449 Hipp, T. S. 7004 89, 90 Hiramine, S. 4113 Hiraoka, N. 9035 Hiraoka, T. 2696 Hirobe, M. 3111 Hirose, K. 2413, 2430, 3322 Hirschauer, M. 212 Hirschauer, M. 212
Hirumi, H. 833
Hirunyupakorn, V. 7225
Hisada, S. 4769, 9031
Hisada, S. 6758
Hislop, E. C. 7385
Hladík, F. 3482
Hlavička, J. 4597
Hlišč, T. 3452
Ho, H.-K. 6368
Ho. M.-S. 8833
Hobman, F. R. 2479
Hobson, L. 1517, 7164
Hock, B. 8661
Hock, W. K. 1146
Hock, W. K. 1146
Hock, J. 2367
Hoeks, J. 5679
Hoekstra, S. M. R. 2964
Hoeven, A. J. M. van der 6971
Hoeven, A. J. M. van der Hirumi, H. 833 Hoeven, A. J. M. van der 6971 6971
Hoffman, G. M. 2206
Hoffman, J. C. 4466
Hoffman, M. 6145, 6479
Hoffmann, F. 5958
Hoffmann, I. 7389
Hoffmann, K. 8397
Hofmeyr, D. 4250
Hofmeyr, J. H. 4003
Höfner, W. 8308
Hofstra, G. 2788
Hogg, J. W. 1413, 3027, 3947, 7965
Högger, C. 687 7965 Högger, C. 687 Hogue, E. J. 7816 Hohmann, G. 8487 Hoitink, H. A. J. 3915 Holdsworth, D. K. 3065 Holdsworth, R. P. 1756, 4213 Holevas, C. D. 864, 993, 1485 Holfelder, E. 8420 Holgate, M. E. 1747

Holkamp, A. 4150, 5672 Holland, R. W. K. 5398 Holle, M. 1248 Hollen, L. B. 2073 Holley, W. D. 2178, 5403, 6966, 7863 Holliday, P. B. 794 Holligan, P. J. 483 Holligan, P. J. Holligan, P. J. 483 Holloway, D. M. 9040 Holmes, A. 6463 Holmes, L. D. 181, 5241 Holmes, M. G. 2403 Holsteyn, G. P. A. van 5683 Holt, H. A. 1044 Holtz, R. B. 5380 Holtzhausen, L. C. 6330 Holtzhauzen, L. C. 1469 Holubek, J. 2367 Holubek, J. 2367 Hołubowicz, T. 970, 971, 5742 Homa, P. 6109 Home, P. 2082 Home, P. 2082 Homeyer, B. 446 Homutescu, V. 2 Honda, F. 6710, 6817 Hong, S. B. 533, 1059 Hönick, A. 4404 Honig, J. 3990 Honma, S. 4406, 4534 Homura, T. 1664 Hoodless, R. A. 7324 Hoof, P. Van 2919, 2920 Hoof, P. Van 2919, 2920 Hooger, J. 5550 Hoogeterp, P. 734, 735, 2954, 2955, 7913 Hook, P. 5427 Hooker, W. J. 1195, 3698 Hoon, B. J. 2402 Hooper, L. J. 4132 Hopen, H. J. 8687, 8809 Hopfer, D. A. 90 Hopkins, D. L. 2769, 5219, 7675 Hopkins, T. L. 183 Horak, A. 2797 Horanic, G. E. 8084 Hore, B. K. 314 Hörhammer, L. 2371 Hörhammer, L. 2371 Hori, Y. 6826 Horký, J. 2908 Horn, E. 4198, 6621 Horn, G. C. 2970, 6193, 7922 Horn, N. L. 1885 Hornby, C. A. 3811 Horner, C. E. 759 Horney, G. 3562 Hornok, L. 8038 Horovitz A. 1986 Horovitz, A. 1986 Horowitz, M. 3935 Horovitz Horowitz, M. 3935 Horswitz, M. 8066 Horsburgh, A. S. 12 Horst, R. K. 1333, 4626 Horsten, J. 6006 Horton, B. D. 5034 Horton, R. D. 1207, 5993 Horton, R. F. 4494 Hortyński, J. 1069 Horváth, E. 1679 Horváth, I. 6064 Horváth, I. 6064 Horváth, J. 3703, 7961 Hory, H.-D. 5286 Hösel, W. 6009 Hosny, M. M. 2396 Hosoi, T. 6719 Hösslin, R. von 4519 Hough, L. 7056 Hough, L. F. 3374 Houghton, P. J. 2363, 2364, 5526 5526 House, J. 5221 Houten, J. G. ten 4130 Hovadík, A. 6038, 8797 Howard, B. H. 1850, 8318 Howard, C. M. 1867, 2702, 4331, 5100, 6163, 6694, 6699, 7528, 8747 Howard, R. A. 5593 Howell G. S. 1066 Howard, R. A. 5593 Howell, G. S. 1066 Howes, C. D. 7710 Hoy, M. 1920 Hoyle, B. J. 5303, 7813, 8614 Hoysler, V. 713 Hričovský, I. 7421 Hsaio, J.-Y. 8957

7260 Hsia, F. Y. Hsiao, A. I. Hsiao, T. C. 136, 1976 7727 Hsieh, J. H. 7234 291 Hsieh, K. C. 2189 Hsieh, K.-H. Hsieh, W. H. 4083, 4087 Hsieh, Y. L. 7828, 8829 Hsu, A. C. Hsu, C.-C. 5576, 6367 3905 Hsu, S.-T. 180, 5247 Hu, C. Y. 3911, 4692 Hu, C. Y. 3911, 4692 Hu, K. J. 7828, 8818, 8829 Huang, A. H. C. 4395 Huang, E.-S. 4759, 6282 Huang, H.-C. 6282 Huang, H.-C. 6282 Huang, S. T. 291 Huang, Y.-C. 6368 Huang, Y.-J. 7253 Huault, C. 2766 Hubbeling, N. 6835 Hubermann, M. 808 Hudská C. 8089 Hudská, G. 3400 Hudson, J. P. 1717 Hudson, J. P. 1717 Hudson, K. E. 7836 Huet, J. 1840 Huet. J. 2650 Huet, R. 371, 1511, 2328 Hufford, C. D. 6292 Hughes, A. P. 272, 7859, 7860 Hughes, E. 4922 Hughes, H. M. 3645, 2556 Hughes, E. 4922 Hughes, H. M. 3545, 3556, 7503, 7530, 7533, 8375 Hughes, J. P. 4805 Hughes, J. T. 2124, 4935 Hughes, R. E. 1050 Hughes, T. D. 1321, 2276 Hui-Lin Li 9015 Hui, W. H. 4752 Huikari, O. 7511 Huisman A. H. 8305 Huikari, O. 7511
Huisman, A. H. 8305
Hulamani, N. C. 6003
Hulewicz, D. 126
Hulewicz, T. 1069
Hull, J. W. 1866, 3527, 5870
Hull, R. 890
Hull, R. J. 3710
Hulmani, N. C. 567
Hulme, A. C. 7306
Humbert, R. P. 4894
Humphrey, B. E. 4612, 7035
Humphrey, W. 1326, 7847
Humphrey, W. A. 710
Hundgeburt, H. J. 4199
Hundtoft, E. B. 4072, 6415 Hundtoft, E. B. 4072, 6415 Huneck, S. 3018 Hungary, Országos Mezőgazdasági Fajtakísérleti Intézet 1679 Hunt, D. R. 7035 Hunter, D. L. 70 Hunter, J. E. 375, 1643, 2418, 4101, 7217 Hunter, T. 1878 Hunumantha Rao, P. 8213 Hupila, I. 8484 Hurd, R. G. 3296, 6925 Hurlimann, J. H. 5428, 7573, 7851 7851 Hurney, A. P. 419 Hurov, H. R. 2462 Hurter, N. 5060, 7470 Husabø, P. 5728 Husain, A. 5330 Husain, A. A. 8219 Huskisson, N. S. 3650 Hussain, A. 610, 666 Hussain, A. A. 64 Hussain, G. 8036 Hussain, G. 8036 Hussain, M. H. 3080 Hussain, S. F. 1402, 3055 Hussein, F. 1607 Hussey, G. 2064, 7803 Hussey, N. W. 7837 Husson, A. 1354 Husson, H.-P. 1354, 1355 Huston, F. 7657 Hutchinson, J. 434 Hutchinson, D. J. 3100 Huyskes, J. A. 5907 Hwang, S.-W. 5378 Hyland, F. 7516

Hymowitz, T. 5997, 6858 Iacob, N. 8516 Iannini, B. 573, 1125, 2727, 5852, 6760 Ibrahim, I. M. 4219 Ibrahim, M. 1481, 1482 Idagawa, T. 7768, 8080 Ideta, M. 8064, 8067 Ie, T. S. 4646 Ignat'ev, B. D. 4975 Ignat'ev, B. D. Ignat'ev, B. D. Ignat'ev, B. D. 4993 Ignat'ev, B. D. 5004 Ignatov, B. 667 Ignatov, V. A. 6584 Ignatova, E. 3138 Igoshina, T. I. 4564 Igwegbe, E. C. K. 2391 Ihrig, E. 3628 Iijima, T. 614, 5366 Iiraka, Y. 5527 Ikeda, I. 2430 Ikegami, S. 6016 4993 Ikeda, I. 2430 Ikegami, S. 6016 Ikegami, T. 7886 Ikegaya, K. 4113 Ikehara, D. K. 9191 Ikenaga, T. 6298 Ikram, M. 5480 Ikuma, H. 1673 Ikuta, A. 5529 6298 Il-Young Maing 5902 Ilany, A. 3312 Iliev, I. 7329, 8458 Iliev, I. 7329, 8458
Iliev, L. 2337
Ilieva, E. 7329
Ilieva, S. 3037, 7085
Ilieva, S. D. 3026
Ilieva, V. 6494, 8302, 8303
Il'in, L. N. 6739
Ilsley, P. S. 7197
Ilyas, M. 7661
Im, Y. J. 1108
Imai, H. 4578
Imamaliev, G. N. 8109 Imamaliev, G. N. 810 Imanishi, H. 2217 Imbamba, S. K. 3256 Impellizzeri, G. 5595 Imbamba, S. K. 3256 Impellizzeri, G. 5595 Impens, R. 5383, 5384 Impey, R. L. 519 Imre, S. 7107 Inaba, T. 2000 Inagaki, I. 4769, 9031 Inagaki, N. 8735 Inamdar, J. A. 5494 Inayatullah 491, 507, 7344 Indeherberg, J. 3059 India, Institute of Horticultu India, Institute of Horticultural Research, Hessaraghatta, Bangalore 2667, 2668, 3606, 3607, 3971, 4024, 4033, 4034 India, UPASI Tea Scientific Department 1657 Inforzato, R. 8671 Ingamells, C. J. 7622 Ingestad, T. 6479 Ingham, J. L. 4137 1290 Inglis, I. M. Ingram, D. S. 7632 Ingram, J. 8342 Ininov, B. 7676, 7682, 8767 464 Innerhofer, L. Inoue, H. 6620, 7134, 8062 Inoue, T. 4114 Inoue, Y. 3168 Inouye, H. 4723 8937 Inouye, N. 1492 Inserra, S. International Atomic Energy Agency 6484 International Dendrology Society 3906 International Potash Institute 8308 International Society for Horticultural Science 3210 6698, 7276, 7278 Intrieri, C. 2632, 5143, 5707, 5761 3210. Joannes, A. de 6554 Jochev, D. 6072 Jonescu, L. 7426

Author Index Ionova, Z. A. 2680 Iordăchescu, O. 7809 Ippolito, G. 5845 Ippolitov, L. S. 7363, 8366 Ireland, H. M. M. 6850 Irimura, T. 2309 Irish Republic, An Foras Talúntais 1720, 1857, 1939, 2909, 3957, 6482, 6770, 7032, 8035 Irish Republic, University College Dublin, Faculty of General Agriculture 2538, General Agriculture 2538, 5150
Irshad-ul-Haq Mian 5586
Irugalbandara, Z. E. 5645
Irvine, J. E. 8247, 9226, 9268
Irvine, K. H. 3530
Irwin, M. A. 6286
Isaac, E. 3540, 3546
Isaacs, W. A. 774
Isaeva, I. S. 6572
Isaeva, L. I. 612
Isaichev, V. V. 2703
Isaković, D. 6515
Isenberg, F. M. 3772, 4526
Ishaaya, I. 94
Ishida, K. 8762
Ishigaki, K. 6457
Ishiguro, T. 4393
Ishihara, M. 7136, 7140
Ishii, Y. 1698 5150 Ishihara, M. 7136, 7140
Ishii, Y. 1698
Ishikura, N. 744
Ishizuka, Y. 4
Isin, M. M. 48
Işik, S. E. 3623
Iskrić, S. 8731
Ismail, F. H. 2409
Ismail, M. A. 4009
Ismailov, N. M. 5516, 8040
Isobe, M. 4092
Isotalo, A. 2738
Israel Winistry of Agriculture Israel, Ministry of Agriculture, Center for International

Agricultural Cooperation 3608
Issar, S. C. 8998
Istas, W. 4689
Iswaran, V. 208, 4497, 5271
Itagi, T. 2767
Italy, Associazione dei Dottori in Scienze Agrarie della Provincia di Catania 2159

Agricultural Cooperation

Italy, Istituto Sperimentale per l'Agrumicoltura 4118 Italy, Südtiroler Beratungsring für Obst- und Weinbau 464

464 Italy, Università di Pisa, Facoltà di Agraria 6507, 6714, 6771, 6960, 8050 Ito, H. 2132, 6931, 7589 Ito, K. 7791 Ito, P. 1606 Ito, S. 1674, 3151, 4020 Ito, T. 6872 Ivanov, A. 4327 Ivanov, I. 1896,2711,6717

Ivanov, S. 5069 Ivanov, V. 4327, 6698 Ivanov, V. F. 453, 509, 1743, 5765, 8434 Ivanov, V. I. 7110 Ivanova, A. S. 5765 Ivanova, I. 2799 Ivanova, M. 5936 Ivanova, T. I. 2881 Ivanova, Y. A. 2067, 3744, 2750 3750 Jyanova, Ya. A. 2067 Ivashin, D. S. 1456 Iveković, V. 2661 Iversen, T.-H. 8636 Iversen, T.-H. 8636 Ives, D. H. 1954 Ivin, P. C. 1655 Iwagaki, I. 8064, 8067 Iwaki, M. 2254 Iwakiri, B. T. 7439 Iwano, S. 5023 Iwata, M. 5778, 5779, 6360

Iwata, T. 5821, 6872 Iwazawa, K. 8574 Iya, D. R. P. 4045 Iyengar, A. V. V. 2329 Iyengar, B. R. V. 398, 7191 Iyengar, M. A. 2371 Iyengar, M. S. 3030 Iyengar, M. S. 3030 Iyer, A. 1449 Iyer, P. N. S. 7056 Iyer, T. A. G. 1630 Izhar, S. 6986, 7870, 8872 Izsak, E. 6698, 6708, 8524 Izsáki, Z. 246 J. Brun-Hool 6491 Jack, R. L. 7415 Jackson, A. O. 420 Jackson, B. P. 9041 Jackson, D. C. 7534 Jackson, D. I. 195, 5994 Jackson, H. R. 179 Jackson, J. E. 1708, 1710, 8381 8381
Jackson, J. L., Jr. 3108
Jackson, L. P. 105, 2689, 3532, 6685, 6688
Jackson, M. B. 2035, 3718
Jackson, N. 7928
Jackson, R. D. 4883
Jacob, H. 999, 1809
Jacoboni, N. 1521
Jacobs, C. J. 8163, 8171
Jacobs, H. S. 11
Jacobs, H. S. 11
Jacobs, L. M. 8
Jacobs, W. P. 1347, 1375, 5453, 8923
Jacobsen, P. 2916 8381 Jacobs, W. P. 1347, 1375, 5453, 8923
Jacobsen, P. 2916
Jacoby, B. 8697
Jacorzynski, B. 8807
Jacot, D. 5177
Jacqmard, A. 331, 3010
Jacqua, G. 6847
Jacques, R. 3861
Jadhav, A. S. 9218
Jadhav, S. 1298
Jadhav, S. J. 6104
Jadin, P. 7180
Jadnanansing, R. R. 379
Jaganathan, T. 159, 1189
Jagels, R. 5358
Jäger, H.-J. 6015
Jaglan, P. S. 6486
Jahn, O. L. 2407
Jaime, S. 6693 Jaglan, P. S. 6486 Jahn, O. L. 2407 Jaime, S. 6693 Jain, K. K. 1405 Jain, M. K. 5455 Jain, M. R. 3016 Jain, S. C. 4778 Jain, S. R. 3016 Jaiswal, S. P. 7251 Jaiswal, V. S. 3056 Jakimow-barras, N. 8883 Jákó, N. 5141 Jako, N. 5141 Jaleel Ahmed, N. 6429 Jalichan, D. 1616 Jamaica, Coconut Industry Board 4851 Jamart, G. 4648 James, G. L. 422, 4890, 6446, 7231, 7245
James, L. G. 640
James, N. I. 3259, 8254
James, W. C. 80 Jamiołkowska, B. 8897 Jamiotkowska, B. 8897 Janas, S. 285 Janes, B. E. 8755 Janick, J. 1670, 3374, 3486 Janistyn, B. 334 Janjić, V. 6544, 6563 Janković, R. 6541, 6550, 6681 Janot, M.-M. 1354 Jansen, van Rensburg, H. 4469 Jansen van Rensburg, H. 4469 Janson, H. F. 3376 Janson, J.-C. 2317 Janssen, G. 1975 Jansson, J.-C. 2317 Janssen, G. 1975 Janssen, J. 7774 Janýška, A. 3662, 4588, 5881 Jaquemont, R. 5396 Jaques, R. P. 1172 Jaquinet, A. 584 Jarebica, D. 2656 Jarman, P. D. 3296 Jarquin, R. 7200

Jarvis, P. J. 1400 Jarvis, W. R. 5184 Jaša, B. 2753, 2758, 2836, 2893, 5323 Jasa, B. 6212 Jaschkowa, V. 923 Jash, M. 266 Jassal, N. S. 8664 Jauhari, O. S. 559, 568, 842, 3210, 3224 Jaumień, F. 8468 Javoy, M. 1192 Jawanda, J. S. 554, 3212, 5584, 6371, 7161, 7162, 8104
Jaworski, C. A. 3774
Jayakar, M. 2849
Jayakaran, M. 8757
Jayaram, M. 1534
Jayaraman, S. 808
Jaynes, R. A. 322, 7057
Jazbec, M. 7495, 8466
Jeannin, G. 4398
Jedličková, J. 2893
Jeffeoat, B. 2191, 6140
Jefferies, T. M. 3087
Jeffery, L. S. 6842
Jelaska, S. 5229
Jenkins, J. M. 2237 8104 Jenkins, J. M. 2237 Jenkins, P. T. 3496 Jenkins, P. T. 3496 Jenkins, S. F., Jr. 6057 Jennen, A. 2300 Jennings, P. H. 6020 Jennings, W. G. 2441, 5793 Jensen, F. 1920, 1922 Jensen, H.-E. K. 3839, 3867 Jensen, M. C. 640 Jensen, M. C. 640 Jensen, M. H. 3625 Jenser, G. 7322, 7323, 7371, 7384 Jennen, J. J. 8669 Jeon, I. J. 8669 Jeon, I. J. 8669 Jesus, J. De 2074 Jeszenák, G. 246 Jevremović, V. 6626 Jeyarajan, R. 569, 2846, 6754, 7143, 8559 Jha, A. 6894 Jhang, J. J. 1444 Jhooty, J. S. 6861 Jindra, A. 3078 Jindray H. 8427 Jhooty, J. S. 6861 Jindra, A. 3078 Jindrová, H. 8427 Jiřík, J. 4418 Joffe, A. Z. 369, 6327 Johansson, J. 7854 John, M. K. 4437, 5809 Johnnykutty, A. T. 220 Johnson, A. W. 751 Johnson, C. M. 173 Johnson, C. R. 5402 Johnson, D. 1458, 3091, 4780, 8049 8049
Johnson, E. 1323
Johnson, F. 530, 5087
Johnson, H. 1886
Johnson, H., Jr. 1202
Johnson, H. M. 187
Johnson, J. F. 5750, 7408
Johnson, L. A. 7592
Johnson, L. C. 5461
Johnson, P. H. 4380 Johnson, P. H. 4380 Johnson, P. W. 5351, 7452 Johnson, S. R. 2144 Johnson, W. B. 2889 Johnson, W. B. 2889 Johnston, A. 8928 Johnston, M. A. 411 Johnston, R. E. 3640, 5332 Johnston, W. E. 5777 Joiner, J. N. 1376, 7045 Jolad, S. 8028 Jolivet, J. 6285, 7985, 7991 Jolles, C. 6307 Jolliffe, P. A. 8500 Jona R. 368 Jona, R. 368 Jones, A. C. 5780 7481 Jones, A. L. Jones, A. T. Jones, B. M. Jones, C. D. Jones, C. M. Jones, D. A. Jones, D. T. 4317 3408, 3474, 5039 1620 1182 8798

· Jones, G. E. 7040 Jones, H. G. 2508 Jones, J. B., Jr. 1821 Jones, J. P. 1288, 2110, 2860, 4570, 6914, 6918, 7797, 7799 Jones, J. W. 2405 4609 Jones, K. Jones, L. A. Jones, L. H. Jones, O. P. Jones, P. R. Jones, R. A. Jones, R. C. 81, 1837 6374 Jones, R. C. 63/4 Jones, R. H. 3247 Jones, W. C. 1326, 3007, 7847 Jones, W. W. 798, 4791, 9086 Jong, C. 1838 Jongenotter, W. Jonkers, J. 8714 2183 Jonkers, J. 8714 Jönsson, H. A. 3884 Joo, P. K. 7625 Joose, M. L. 8405 Joosse, M. L. 7461 Jopling, C. 4609 Jordan, E. G. 6945 Jordan, V. W. L. 110, 111, 1878 Jordović, M. 2519, 6683 Jose, A. I. 7072, 7978 Josefsson, E. 3020 Joseph, H. 3987 Joseph, K. J. 31 Joseph, T. 6402 Joshi, B. C. 1449 Joshi, D. P. 3691 1459, 6445, 7118 Joshi, L. K. 14 Joshi, P. 9046 Joshi, P. M. 8216 Joshi, R. D. 7000 Joshi, R. D. Joshi, R. K. 6049 S. C. 1178 6049 Joshi, R. K. 6049 Joshi, S. C. 1178 Joshua, A. 2093, 2094 Josifović, M. 2519 Jouan, B. 1170 Joubert, A. J. J. 8111 Joubert, D. J. 7576 Joubert, J. J. 2961, 8608 Joubert, J. S. G. 5503 Joubert, T. G. la G. 4522 Joubert, T. G. la G. 4522 Jouret, C. 5064, 5065 Jovančević, R. 3375 Jovančević, R. 3375
Jovanić, R. 2520
Jovanović, P. 2520
Jovanović, P. 2520
Joy, P. J. 3190
Juang, T. C. 8212
Juárez, B. E. 772
Juárez, J., Jr. 8201
Juhász, K. 6799
Julia, J. F. 9188
Jullien, M. 8734
Julien, M. 8734
Jung, S. M. 1108
Jungbauer, J. 8875
Jungk, A. 7789
Junnonen, S. 8936
Junttila, O. 8959
Juska, F. V. 4672
Juste, C. 1107
Jyotishi, R. P. 3210, 3222
K., O. 2279
Kaan, F. 4568, 5945, 6888
Kaars Sijpesteijn, A. 5355 Jovanić, R. 2520 Kaars Sijpesteijn, A. 5355 Kabanov, V. V. 2815, 3734, 6927 6927 Kabir, S. M. H. 2123 Kable, P. F. 3473, 5038, 6634 Kachanova, N. Ī. 5797 Kacharmazov, V. 7536 Kachecheba, J. L. 4720 Kachru, R. B. 6718 Kaczoán, V. 3622 Kádas, L. 1545 Kader, E. M. A. 3049, 9063, 9064 9064 9064 Kadiev, T. Sh. 6078 Kadir, G. O. 5279 Kadouri, A. 2005 Kadoya, K. 2398 Kaeiser, M. 5067 Kagawa, T. 7690 Kageyama, M. 2870 Kageyama, M. E. 1255

910 Kahan, G. 8984 Kahan, R. S. 3771 Kahana, I. 210 Kaheru, R. B. 3237, 3241 Kahlon, A. S. 9082 Kaiery, E. 652 Kaimakan, I. V. 1032, 5744 Kaiser, W. J. 8707 Kajiura, I. 5778, 5779, 6360, Kajiwara, T. 2000, 3319 Kakde, J. R. 1634, 3257 Kakehi, M. 2923 Kakehi, M. 2923 Kakhniashvili, Z. A. 3098 Kakiuchi, N. 4020 Kalacheva, L. I. 5199 Kalaïdzhiev, I. 213, 6257 Kalanova, A. I. 2989, 2993 Kalburov, G. 7777 Kalda, T. S. 3782, 6050 Kalinichenko, G. V. 2647 Kalinichenko, I. M. 6531 Kalinin F. I. 2051 Kalinichenko, I. M. 6551 Kalinin, F. L. 2051 Kalinke, H. 553 Kalla, A. K. 2246, 6178 Kallauch, W. 7047 Kállauch, T. 6622 Kallio, T. K. 8950 Kalloo 205 Kalma, J. D. 1472 Kalma, J. D. 1472 Kaloshina, G. S. 3741 Kaloshina, N. A. 8005 Kalra, S. K. 5584, 6371, 6933 Kalyanaraman, V. M. 1279 Kalyanasundaram, P. 9177 Kal'yanova, R. G. 629 Kamalam, N. 5497 Kamalanathan, S. 697, 5223, 5230, 6810 Kamalanathan, S. 697, 5223, 5230, 6810

Kamali, A. R. 1462

Kamat, K. L. 1641

Kameda, S. S. 9241

Kamel, S. H. 4495

Kamelina, O. P. 281

Kamemoto, H. 4682

Kameneva, E. A. 8977

Kamerbeek, G. A. 2245

Kamerman, W. 4656

Kami, T. 3022

Kamimura, S. 7791

Kamin, L. F. 7735

Kamínska, M. 7377

Kamisaka, S. 138, 8599

Kamoen, O. 2222, 4648

Kampe, W. 6795, 7627, 7648

Kanai, R. 9260

Kaname, T. 2767

Kanash, E. V. 7722

Kanaujia, R. S. 8772

Kanazawa, J. 3328

Kanbe, K. 2550, 2551

Kandaswamy, T. K. 6887, 8880

Kandaurova, È. F. 6528 5230, 6810 Kandaswamy, T. K. 6887, 8880
Kandaurova, È. F. 6528
Kandeikina, V. I. 4957
Kaneko, K. 3057, 6592
Kang, B. G. 1235, 2059, 3335, 4508, 8630
Kannaiyan, S. 8654
Kanta, V. 1488
Kantarev, I. 4361
Kanthamani, S. 8278
Kanwar, J. S. 1592
Kanwar, R. S. 426
Kanwar, Z. S. 9118
Kao, H.-Y. 4043
Kao, K. N. 1306
Kao, M. M. 5652
Kapadia, G. J. 3080
Kapelev, I. G. 7984, 8025
Kapeller, K. 6053
Kapetanović, N. 3508, 6613, 7468
Kapil, R. S. 4760 7468 Kapil, R. S. 4760 Kapitány, J. 6037 Kaplan, J. 2417 Kapoor, J. K. 3676 Kapoor, L. D. 7065 7065 Kapoor, M. L. 8385 Kapoor, P. C. 8202 Kapoor, S. L. 7065 8385 Kapoor, S. P. 8559

Kapoor, V. 671 Kappen, L. 8426 Kappler, H. 4131 Kapranova, N. N. 6241 Kapur, B. M. 765 Kar, K. 4098, 7237, 8194, 8202, 9250 Karacali, I. 7406 Karacharova, L. P. 7460 Karakhanova, S. V. 858 Karamysheva, V. I. 2521, 7416 7416
Karapetyan, K. A. 5773
Karawya, M. S. 9063, 9064
Karaya-Chikvatiya, R. K. 3106
Karchi, Z. 5228
Karg, W. 7391, 8394
Kari, J. M. 430
Karikari, S. K. 7215
Kariya, K. 8628 Karikari, S. K. 7215 Kariya, K. 8628 Karlin, V. R. 8046 Karlsson, H. G. 8928 Karnatz, A. 104 Karnick, C. R. 356 Karnikova, L. D. 4310, 6671 Karov, S. 4951, 4952, 6609 Karova, V. 6612 Karperchyk, G. K. 8378 Karpenchuk, G. K. 8378 Karpova, G. Ya. 6269 Karsten, J. E. 4374 Kartalov, P. 441, 4536, 5333, 8784
Kartalov, T. 6811
Kartalov, V. 8771
Kartha, A. R. S. 3336
Kartha, K.-K. 762
Kartmazova, L. S. 2335, 3968
Kartnig, T. 9049
Karunanayake, E. H. 6465
Karyakina, T. I. 3741
Karzov, V. F. 6764, 7563
Karzova, V. V. 6764, 7563
Kasai, K. 6459
Kasbekar, M. G. 2373
Kashakashvili, Ts. S. 4801, 7126 8784 7126 Kashiwa, T. 4936 Kashyap, R. 3210, 3222 Kasi Viswanathan, P. R. 8153 Kasimatis, A. N. 27 Kasinathan, S. 3974 Kasinathan, S. 3974
Kask, K. 268
Kasmire, R. F. 2134
Kaspers, H. 5006
Kasprzyk, Z. 4637
Kassam, A. H. 1222
Kassem, E. S. 8250
Kassrawi, M. 6762, 8555
Kasumov, M. A. 3943
Kasumova, M. K. 5115
Katan, J. 1267, 2843
Katayama, O. 6592
Katerov, K. 1079, 4336, 8537
Kathiravetpillai, A. 6461
Kathju, S. 2808 Kathju, S. 2808 Katiman 6422 Kato, T. 2098, 4517 Kato, Y. 4115 Katoch, D. C. 8266 Katsumi, M. 138 Katz, M. 2297 Katz, M. 2297
Kaufmann, H.-G. 709, 2160
Kaufmann, M. R. 3140, 6356
Kaufmann, W. 6384
Kaukovirta, E. 7855, 8843
Kaul, D. L. 3671
Kaul, G. L. 9101
Kaul, G. L. 9101
Kaul, K. 2271
Kaushik, D. D. 2808
Kavanagh, T. E. 2446
Kavanagh, T. E. 2446
Kavathekar, A. K. 6949
Kavka, B. 2274
Kawabata, A. 3160
Kawahara, T. 1698, 2507, 2762, 4546, 4900
Kawakubo, U. 5366
Kawamoto, S. O. 5310, 5311, 6883 Kawase, K. 6624 Kawase, M. 3837

Kawecki, Z. 968 Kayange 4895 Kaye, G. R. 4159, 4212 Kazakov, I. V. 8464 Kazakova, A. A. 4520, 4521, 5158 Kazantseva, A. E. 8479 Kazantseva, L. P. 581 Kazarinov, G. E. 6172 Kazaryan, V. O. 2589, 5842 Kazda, V. 2004 Kazimirova, R. N. 2187, 2188, 7856 K"drev, T. 3800 Keane, P. J. 3184 Kearney, P. C. 3 Kechakmadze, L. A. 3166 Kedar, N. 1199, 2086, 2832, Kedar, N. 1199, 2086, 2832, 3688, 4525, 5227 Keefer, R. F. 8514 Keeney, P. G. 2446 Keep, E. 6680 Keetch, D. P. 4835, 7608 Kefeli, V. I. 193, 4513 Kefford, N. P. 8640 Kegler, H. 7321, 8436 Keh, C. H. 6384 Keil, H. L. 515, 1832, 4275, 5049 5049 Keipert, K. 979, 7504, 7506, 7518
Kekwick, R. G. O. 2030, 8700
Kelderman, W. 3325
Keleberda, M. Ī. 3590, 8539
Keller, H. 4867
Keller, S. 8395
Keller, W. J. 8014
Kelley, J. D. 2311
Kellmer, L. H., Jr. 5427
Kelly, G. J. 3740, 8724
Kelly, J. F. 4941
Kelm, I. 119, 5161
Kelsey, L. P. 4540
Ketts, L. J. 5853
Kemp, E. E. 7035
Kemp, G. A. 2491 7518 Kemp, E. E. 7035 Kemp, G. A. 2491 Kemp, J. G. 5695 Kemp, T. R. 2008, 2783 Kemper, J. D. 8939 Kempler, H. 6889 Kempton, D. P. H. 3666 Kempton, R. J. 2137, 2755, 8789 8789
Kender, W. J. 965, 6728
Kenderick, R. E. 3736
Kennedy, D. M. 1074
Kennel, W. 1752, 8439
Kennett, C. 9097
Kenny, T. A. 3522
Kent, S. S. 4491, 4492
Kenworthy, A. L. 32, 2612
Kenya, Coffee Research 8789 Kenya, Coffee Research Foundation 3191 Kenya, Tea Research Institute Kenya, Tea Research Ins of East Africa 7264 Keplinger, J. A. 8490 Kerbabaev, B. B. 7108 Kerekes, J. 6766, 8038 Kerkadze, D. V. 4029 Kerkadze, I. G. 3268 Kern, H. 2055 Kern, J. 2967 Kerner, E. 1924 Kerr, A. 443, 2642 Kerr, E. D. 644 Kerr, A. 443, 2642 Kerr, E. D. 644 Kesheva, A. T. 6078, 7568 Kessell, R. H. J. 4593 Kesteren, H. A. Van 1374 Kesterson, J. W. 4022 Ketchie, D. O. 4994, 5710 Ketskhoveli, E. N. 8944 Key, J. L. 226, 1234, 7734 Kezeli, T. A. 7717 Kfir, R. 1490 Khabazi, Z. 5534 Khachatryan, S. S. 1894, 75 Khabazi, Z. 5534 Khachatryan, S. S. 1894, 7547 Khachidze, O. T. 7587 Khadem, S. H. 3600 Khadr, A. S. 6819 Khadzhiev, T. 1908 Khafagy, S. M. 6301, 6302 Khaĭsin, M. F. 6033, 6882

Khalezova, T. V. 7117 Khalifa, T. I. 9063, 9064 Khalilov, È. K. 4339 Khalimbekov, S. Kh. 5701 Khalin, G. A. 2540, 4287, 8354 Khalmatov, Kh. Kh. 5525, 9016 9016 Khan, A. H. 2809 Khan, A. M. M. A. 725 Khan, D. A. 1176 Khan, M. H. 2123 Khan, M. I. 5480 Khan, M. N. A. 336, 1418 Khan, M. S. 4084 Khan, M. Z. 8444 Khan, W. M. A. 725 Khan, M. Z. 8444
Khan, W. M. A. 725
Khandelwal, R. C. 7746
Khandobina, L. M. 2897
Khanduja, S. D. 1892, 8571
Khanin, Ya. D. 1111, 1112, 1113, 5105, 5124
Khanna, P. 1433, 1439, 4778
Khanna, P. L. 9047
Kharanyan, N. N. 5258
Kharchenko, L. N. 7969, 7976
Khar'kova, A. P. 5350
Khashimov, F. Kh. 8553
Khatri, H. L. 8760
Khireba, A. Kh. A. 5316 7969, 7970 Khireba, A. Kh. A. 5316 Khlopenkova, L. P. 4645 Khinoleenkova, L. P. 4645 Khmelevskaya, M. A. 7578 Kho, Y. O. 7898 Khodak, V. A. 5121 Khodzhiev, A. Kh. 8712 Khokhlova, V. A. 2780 Kholchenkov, V. A. 1760, 4217
Khomenko, A. D. 7743
Khomyakov, M. T. 1755
Khort, T. P. 2224
Khosa, R. L. 3973
Khoshoo, T. N. 3881
Khosla, H. K. 6823
Khossussi, M. 7135
Khovanskaya, N. V. 7800
Khrapova, A. D. 5955
Khretonova, T. I. 8812
Khristov, A. 7571
Khristov, L. 4315, 4324
Khristova, E. 6500, 7687 4217 7806 Khristov, L. 4315, 4324 Khristova, E. 6500, 7687 Khristova, I. 3810 Khrobockek, E. 5881 Khryanin, V. N. 8002 Khrypova, N. Kh. 969 Khrzhanovskii, V. G. 55; 5520 Khubutiya, R. A. 2495 Khudairi, A. K. 220 Khudairi, A. K. 220 Khurana, S. M. P. 6427, 9132 Khursidze, A. L. 3991 Khvatysh, G. A. 4436 Kidwai, M. A. 8908 Khvatysh, G. A. 4436 Kidwai, M. A. 8998 Kidwai, P. 4402 Kiely, T. B. 1478 Kihara, Y. 3160 Kiigemagi, U. 8997 Kikacheishvili, Z. N. 364 Kikvadze, I. V. 3166 Kikvadze, N. A. 364 Kilby, M. W. 1066 Kilpatrick, J. J. 7223 Kim, B. D. 1201 Kim, C. W. 779, 2007 Kim, D. S. 1312, 2147, 2148, 2149 2149 Kim, G. P. 2147, 2148, 3826 Kim, H. K. 1179, 2343 Kim, H. S. 784, 785, 1256 Kim, J. H. 1059 Kim, J. H. 1179 Kim, J. J. Kim, J. K. 674, 2338 727, 728, 2339 5518 Kim, J. S. Kim, J. Y. Kim, K. J. 541 Kim, K.-K. 1380 Kim, K. R. 522, 952 Kim, K. S. 2020 Kim, M. 593 Kim, M. H. 1754 Kim, O. S. 3826

Author Index Kim, S. 593 Kim, S. C. 475 Kim, T. B. 2338 Kim, Y. C. 1270, 5189 Kim, Y. C. 1270, 5189 Kim, Y. H. 533, 1059 Kim, Y. M. 982, 1256 Kim, Y. S. 3826 Kimati, H. 4065, 5234 Kimball, B. A. 7294 Kimball, B. A. 7294 Kimmins, R. K. 1336, 6176 Kimoto, T. 2082 Kimura, H. 8650 Kimura, O. 4528, 4533, 5328 Kimura, Y. 1359 Kimutsadze, G. P. 7268 Kin', I. I. 7269 Kinet, J. M. 333 Kinet, J. M. 333
King, B. 6786
King, J. W. 301
King, P. 6416
King, R. F. 7242
Kinloch, R. A. 686
Kinoshita, K. 5957, 6417
Kinoshita, S. 8126
Kinpara, T. 8071
Kipiani, É. Ya. 3270
Kiplinger, D. C. 2251, 2252, 3869, 8864
Kipps, A. 7725
Kiprin, V. I. 870
Király, Z. 2792, 3316
Kirby, A. H. M. 444
Kirby, L. K. 1654, 6452, 9232
Kirch, K. 5131
Kirdyashkina, R. I. 4313 Kirch, K. 5131 Kirdyashkina, R. I. 4313 Kirichek, I. M. 5700 Kirik, N. N. 5277, 7730 Kirikoĭ, Ya, T. 5868, 6748, 6761 6761
Kirillova, È. N. 6579
Kirk, H. J. 2706
Kirk, J. T. O. 8694
Kirkham, M. B. 1181, 2790
Kirkpatrick, B. L. 5102
Kirov, N. 7472
Kirschner, H. 3008
Kirthay, J. K. 3089
Kirtbaya, E. A. 5701
Kirtbaya, E. K. 5700
Kir'yanov, I. G. 6540
Kiryukhina, N. N. 5190
Kish, A. J. 1220 Kish, A. J. 1220 Kishaba, A. N. 4443 Kishi, K. 3124, 3320, 6642, 6917 Kishi, K. 3124, 3320, 6642, 6917
Kishimoto, O. 6639
Kishyuk, I. M. 2003
Kiss, A. 6571
Kiss, A. 6571
Kiss, A. 6733
Kiss, L. Z. 6614
Kiss, S. A. 5162
Kissler, J. J. 7573
Kitagawa, H. 6361
Kitahara, Y. 4517
Kitajima, E. W. 4797
Kitajima, H. 7448
Kitlaev, V. N. 2728
Kitsno, V. E. 7730
Kitze, C. 7079
Kiumehr, N. 1450
Kivite, S. E. 5990
Kiyokawa, I. 5043
Kiyoto, M. 2782
Klad'ko, V. M. 6574
Klapwijk, D. 2115
Klar, A. E. 5296, 5297
Klas, J. 2052
Klásek, A. 5517
Klasová, A. 2052
K'ibova, V. 7698
Kleifeld, Y. 4558, 6066
Klein, D. T. 892
Klein, M. 1373
Klein, R. M. 892, 5485
Kleinert, W. 4824
Kleinhempel, H. 5164, 5410, 7298, 7321
Kleinschmidt, G. D. 7132
Kleinschmidt, G. D. 7132
Klement, Z. 7423 7298, 7321 Kleinschmidt, G. D. 7132 Klement, Z. 7423 Klenczner, A. 4934 Klerk, C. A. de 4352 Klett, J. E. 1321, 2276 K"lev, I. 1104

Klevtsov, M. M. 7775 Klewitz, R. 6116 Kliewer, W. M. 583, 3595, 8547, 8567 -Kligerman, I. I. 7577, 8564 Klimashevskiĭ, E. L. 6864, 7728, 8721 Klevtsov, M. M. 7775 7728, 8721 Klimenko, K. T. 737 Klimenko, V. G. 197 Klimeš, K. 2356 Klimovitskaya, Z. M. 5284 Klingler, J. 1919 Klören, M. 1917 Klotz, L. J. 2387, 4001, 4787, 6329 6329 Klougart, A. 5427 Kloutvor, J. 3438, 3441 Kloutvor, J. 3 Kloz, J. 3723 Klotvor, J. 3438, 3441
Kloz, J. 3723
Klozová, E. 3723
Klozová, E. 3723
Kluczyńska, J. 7496
Klueter, H. H. 276
Klüsche, M. 8894
Klyshev, L. K. 8722
Klyueva, M. P. 1732
Knaap, W. Van der 1283
Knaflewski, M. 696
Knapp, F. F. 4042
Knapp, F. W. 5092
Knapp, J. E. 2360
Knauss, J. F. 1377, 6204, 7024, 7027, 8924
Knavel, D. E. 1291, 1993, 2008, 2783
Knecht, G. N. 3715
Knee, M. 52, 6603
Kneebone, L. R. 6950, 8820
Knegt, E. 7289
Kneissl, P. 2196, 8871, 8896
Knezek, B. D. 2019 Knezek, B. D. 2019 Knight, A. H. 7873, 7874 Knight, R. J., Jr. 4785, 5627, 7202 Knight, R. L. 2539 Knoblauch, F. 2489 Knoblauch, F. 2489
Knoll, J. 464
Knop, K. 2814
Knösel, D. 6849
Knoth, R. 5407
Knott, L. 5512
Knowles, J. H. 1559
Knox, R. B. 4651
Knox, R. L. 3948
Knyaginichev, M. I. 649
Knyazeva, O. M. 3000
Knyaz'kov, V. V. 2595
Knypl, J. S. 137, 151
Ko, W. H. 122
Ko, Y. S. 2339, 2374
Kobakhidze, Sh. K. 7271 Ko, Y. S. 2339, 2374 Kobakhidze, Sh. K. 7271 Kobayashi, K. 2730 Kobel, F. 4322 Koberstein, S. 7389 Koblet, W. 1926, 4353, 5125, 5836, 5849, 7560 Koblicová, Z. 2367 Kochba, J. 4166, 4341, 5708, 6333 6333 Kocher, F. 535, 1064, 8494, 8495 Kochiashvili, N. S. 8270 Kochkin, M. A. 453, 764, 2187, 8435 2187, 8435 Kockemoer, W. 1502 Kocúr, J. 2049 Kodua, M. 7158 Koenig, J. 6954 Koenig, M. J. P. 7262 Koenig, R. 7017 Koenig, R. T. 8989 Koerwer, J. F. 8914 Koev, K. M. 1083, 2708 Koevenig, J. L. 1375, 7881, 8876 8876 8876 Kof, E. M. 193 Kofranek, A. M. 4631, 6479 Koga, H. 8068 Koháry, E. 7316 Kohl, H. C. 2301 Kohli, R. R. 7204, 8127 Kohlmann, J. 342, 5507, 6279, Kohysaeva, K. G. 1871 Koĭnov, G. 8670

Kokaya, Ts. D. 3143 Kokaya, 18. D. 3143 Kokhanova, L. T. 5701 Kokubo, E. 7997 Kolarova, M. 5236 Kolatorová, E. 4714 Kolattukudy, P. E. 7742 Kolb, W. 7919 Kolbe, W. 953, 5719, 7509, 7539, 8376 7539, 8376 7539, 8376 Kolcheva, B. 6734 Kolek, J. 2052 Kolesnik, A. A. 56 Kolesnikov, A. I. 2622, 5699 Kolesnikov, D. G. 1403 Kolesnikov, V. A. 1, 1948, 8382 Kolesnikova, A. F. 2622, 5699
Kolev, E. 2736, 4373
Kolev, K. D. 2580
Kollányi, L. 7510
Köllner, V. 6974
Kololgi, S. D. 567, 2715, 6003
Kolomiets, I. A. 2542
Kolontaev, V. M. 8338
Kołota, E. 1246
Koltai, M. 9056
Kol'tsova, A. S. 2224, 3865
Kolupaeva, K. G. 1870
Komae, H. 5498
Komamine, A. 1305, 4592
Komarova, R. A. 6117
Komissarenko, N. F. 1403
Komizerko, E. I. 8812
Komosa, A. 6145 Kolesnikova, A. F. 2622, 5699 Komizerko, E. I. 8812 Komosa, A. 6145 Komoto, N. 6016 Komuro, Y. 1999, 2254, 7904,8451 Kon, K. 2550, 2551 Konarlı, O. 7523 Kondakov, A. K. 2572 Kondarev, M. 2712, 5109, 6716, 7548, 7552 Kondo, I. N. 7559 Kondratenko, P. T. 5534 Kondrat'ev, V. D. 6582 Kondrya, S. M. 7588 Konečný, K. 4714 Kong, S. J. 1059 Koniarek, M. 8774 Kong, S. J. 1059 Koniarek, M. 8774 Konishi, S. 4114, 4906 Konno, S. 7140 Konobeev, A. S. 2544 Konobeev, A. S. 2544 Kononikhina, N. F. 6299 Konoshima, M. 9035 Konovalov, I. N. 8965 Konrad, K. 5197 Konsler, T. R. 6068 Konstantinov, L. K. 933, 6537, 7396 Koo, R. C. J. 3115, 5631, 5631, Koomen, N. C. A. 8611 Koopmans, W. 1265, 1962, 2751, 2858, 3781, 6787 Z/31, 2838, 3/81, 0/8/ Kopecwicz, J. 5260 Kopchev, G. 1278, 5304 Kopecký, T. 7541 Kopecký, J. 3043, 7089 Kopylov, N. I. 960 Kopyshinskii, P. V. 1733 Korać, M. 3385, 3386, 6512, Koresheva, R. N. 4304 Koren, I. 60 Korentova, R. N. 4304 Korhonen, I. 60 Koriyama, S. 7999 Kormilitaur, A. 14 6545 Kormilitsyn, A. M. 1383, Kormilitsyn, A. M. 1383, 3909

Korn, R. W. 5406

Korneichuk, V. A. 5369

Kornesku, A. S. 4962

Korneva, E. I. 5534

Korobets, P. V. 4339

Korobko, A. P. 6102

Korobko, I. I. 1110

Korobov, V. I. 2292

Koronowski, P. 3672

Korsungkaya, G. I. 7066 Koronowski, P. 3672 Korsungkaya, G. I. 7066 Kortov, A. M. 1858 Kortčchak, H. P. 9261 Korver, O. 4908 Korzun, G. P. 254 Kosaka, S. 4477

Kosela, S. 5498 Koseva, D. 338, 339, 2323, 3952, 5499 Koshelev, V. K. 2554 Kosher, L. N. 466, 3403, 7369 Koshevskii, I. I. 7730 Koshoev, K. K. 2334 Kositsin, A. V. 4564 Kosmodamianskaya, M. M. 6192 6192 Kosova, A. I. 6033 Kostadinov, I. 5379, 8831 Kostecka-Madalska, O. 9032 Koster, J. 2256 Kostroma, E. Yu. 1805, 5062 Kosugi, K. 5460, 8938 Kosykh, S. A. 462 Kotalawala, J. 3216, 4879, 5625 5625
Kottesov, P. 6578, 8393
Kotheimer, J. B. 4715
Koths, J. S. 7925
Kotoman, E. M. 6582
Kotovich, I. N. 1730, 6494, 8302, 8303
Kotsev, K. 6578, 8393
Kotzé, J. M. 3232, 8162
Kotzé, W. A. G. 3802, 5730, 8619
Koucheki H. K. 9860 5625 Kotzé, W. A. G. 3802, 5730, 8619
Koucheki, H. K. 8869
Koutník, V. 5323
Kouyeas, H. 454
Kovachev, G. 7413, 7420
Kovacs, M. F., Jr. 5255
Kovalenko, A. K. 4713
Kovalenko, V. F. 1742
Kovalenko, V. F. 1742
Kovalenko, V. F. 1742
Kovalenko, A. K. 4713
Kovalenko, V. F. 1742
Kovalenko, V. F. 1896
Kovalenko, V. S. 8864
Kozhanova, N. I. 3512, 3598
Kozhin, S. A. 2322
Kozhina, I. S. 763
Kozjek, F. 9065
Kozlov, P. I. 939, 4969
Kozma, P. 6720, 6766
Kozma, T. 6604
Kozukue, N. 4543, 6047, 6048, 8758 6048, 8758 Krajný, P. 7387 Králík, O. 4984 Krajik, O. 4984
Kramarovsky, E. 7789, 8603
Kramer, D. 2941
Kramer, S. 936, 937, 938, 1736
Kranz, J. 4126
Krapf, B. 517, 8408
Krasavina, M. S. 2778, 5224
Krasavtsev, O. A. 7397
Krasnova, T. N. 306
Krasyuk, S. E. 3590
Krasyuk, S. E. 8539
Krasyuk, S. E. 8539 Kraus, V. 4348
Krause, W. 1099, 1280
Krause, W. 1099, 1280
Krauss, A. 865
Krauss, B. H. 4821
Kravets, A. F. 249
Kravtsov, P. V. 2546
K'rdzhieva, N. 8594
Krebs, C. 7348
Kreidl, H. 1769, 4988
Krejčík, V. 8030
Krejčová, J. 2613, 5800
Kreknin, N. Ya. 7477
Kremer, F. W. 5738
Kretchman, D. W. 2113, 2114, 2863, 2864, 2886, 4566
Kretchun, T. 1323 4566 Kretchun, T. 1323 Kretovich, V. L. 2061, 3741, 4903, 8723 Kretschmer, M. 5922 Kreuzaler, F. 8983 Krezdorn, A. H. 1007, 3102,

Kricnar, M. 3352 Kriedemann, P. E. 194, 3332, 6353, 6357, 8565 Krigere, G. Ya. 6946 Krikmane, M. A. 5990 Krikun, J. 3325 Krise, J. 2908 Krikun, J. 3325
Krise, J. 2908
Krishnamoorthy, K. K. 5497
Krishnamoorthy, V. S. 1630
Krishnamurthy, V. S. 1630
Krishnamurth, M. 766
Krishnan, P. 1556
Krishnan, P. 1556
Krishnan, R. G. 9163, 9169
Krishnaprasad, N. K. 1534
Krishnaswamy, N. R. 4765
Kristensen, H. R. 2916
Kriventsov, V. I. 858, 7453
Krivoruchko, G. I. 8378
Krivoruchko, G. I. 8378
Krivoruchko, G. I. 8378
Krivut, B. A. 782
Kříž, J. 3046
Krizek, D. T. 276, 2940, 4726
Krnjaic, D. 5853
Kröber, H. 1958, 7889, 8878
Krochmal, A. 6303, 8029
Krödel, F. 6496
Królikowska, M. 7053
Kröller, E. 4019 Krodikowska, M. 7053 Kröller, E. 4019 Kromer, K. H. 1943 Kronenberg, G. 7524, 7525 Kronenberg, H. G. 142, 3553, 8631
Kroon, G. H. 3862, 7891
Kroon, G. H. 5062
Krotova, O. A. 5941
Kr"steva, M. 985
Krueger, H. R. 1292, 4577
Krug, H. 8293
Kruglyakov, G. N. 5667
Krukoff, B. A. 6317
Krull, E. 5924
Krumov, I. 8537
Krupa, S. 7435
Krüsmann, G. 3906, 5470 8631 Krumov, I. 8537
Krupa, S. 7435
Krüssmann, G. 3906, 5470
Kruzhilin, A. S. 8632
Krylatov, A. K. 8554
Krylov, S. V. 6026
Krylova, I. I. 7350
Krylova, I. I. 2358
Kryukova, L. M. 7109
Kubeczka, K. H. 8037
Kubelka, W. 6292
Kubica, S. 3732
Kubota, S. 5567, 5568, 7157, 8086, 8093, 9084, 9085
Kuć, J. 3316, 5981
Kučera, M. 3066
Kučerova, H. 3066
Kučerova, H. 3066
Kucherenko, V. P. 1240
Kuchkarov, S. 1304
Kuchkarov, S. K. 6833
Kudasov, Yu. L. 7332
Kudinov, V. I. 4191
Kudratov, R. 931
Kudryavets, R. P. 7364, 8337
Kuhlen, E. 4732
Kühne, H. 2173 Kudryavets, R. P. 7364, 8337 Kuhlen, E. 4732 Kühne, H. 2173 Kuiken, J. C. J. 1974 Kuiper, K. 2258, 3317 Kuiper, P. J. C. 1673, 2027, 2963 2963 Kukhta, E. P. 1923 Kukudczanka, K. 8935 Kulaeva, O. N. 2780 Kulasegaram, S. 6461 Kulescha, Z. 131 Kulibaba, Yu. F. 2200 Kulibaba, Yu. F. 2200 Kuliev, A. A. 3162 Kulieva, N. S. 4579 Kulikov, B. N. 1241 Kulikov, G. V. 1382, 2302, 299, 3293 Kulikova, N. T. 5375 Kulkarni, J. B. 619 Kulkarni, S. N. 4529, 7274 Kuller, Z. 2369 Kulshreshtha, D. K. 8008 Kuller, Z. 2369 Kulshreshtha, D. K. 8008 Kulshreshtha, M. J. 2336 Kumamoto, J. 224, 1154, 6331 Kumar, A. 1632, 8251 Kumar, A. C. 8153 Kumar, J. C. 677 Kumar, M. 7883 Kumar, P. S. S. 3069 Kumar, S. 231, 852 Kumaraperumal, N. 9227 Kumashiro, K. 1835 Kume, Y. 2550, 2551 Kundert, J. 5860 Kunesch, N. 1427 Kunesch, N. 1427 Kunimoto, R. K. 375, 2418 Kunisaki, J. 712 Kunisaki, J. T. 1380 Kunishi, A. 3335 Kuniyasu, K. 2859 Kuntze, H. 7782 Kunze, L. 6566 Kuperman, F. M. 5199 Kuppuswami, N. T. 853 Kuramoto, M. 1983 Kuramoto, M. 1983 Kuramoto, T. 3151 Kuramoto, T. 3151 Kuraoka, T. 7325 Kureel, D. C. 9250 Kuretani, M. 6751, 6752, 6753 Kurian, C. 1562, 8142, 9157, 9159 9159 Kuriganova, P. M. 1061 Kuriyama, T. 2111, 2859 Kurki, I. 2738 Kurki, L. 8649 Kuroiwa, Y. 7997 Kürten, S. V. 7104 Kuryndina, T. I. 2561, 2697 Kurzmann, P. 8844 Kushman, L. J. 1065 Kushnirenko, M. D. 908, 490 Kushman, L. J. 1065 Kushnirenko, M. D. 908, 4962 Kushu, R. M. 3263 Kuss, F. R. 1753 Kust, A. F. 2142 Kusters, H. 6958 Kusumo, S. 4197, 4868, 4874, 6023, 6744 Kuszala. C. 5853 Kuszala, C. 5853 Kuszala, J. 497, 5853 Kutáček, M. 5931 Kutateladze, D. Sh. 3158. 9108
Kutlunina, N. V. 6653
Kutsenko, P. T. 5111
Kutsukov, A. S. 2513
Kutuzov, G. P. 7653
Kuvaev, V. B. 3967
Kuvshinova, E. V. 2295
Kuyan, V. G. 3399
Kuzina, G. V. 4310, 6671
Kuzina, L. V. 6575
Kuzmanov, I. 6666
Kuz'min F. V. 5524 9108 Kuzmanov, I. 6666 Kuz'min, E. V. 5524 Kuznetsov, S. I. 1386 Kuznetsov, S. I. 1386 Kuznetsova, E. A. 6926 Kuznetsova, G. A. 9052, 9057 Kuznetsova, G. K. 7113 Kuzovkina, I. N. 193, 9052 Kuzubova, I. A. 6900 Kvantrishvili, D. G. 3110 Kvasnička, S. 4444, 4580, 6118 6118 Kvasnikov, B. V. 7640, 8623 Kveder, S. 8731 Kvirkveliya, V. K. 3109 Kwaak, J. van der 6232 Kwack, B. H. 707, 727, 2149, 2261 2261 Kwon, O. Y. 691 Kwong, S. S. 7473 Kyle, J. H. 645 Kyle, W. J. 2557 Kylin, A. 8308 Kyuwa, K. 2818 La-Anyane, S. 6392 Labanauskas, C. K. 2383, 2393, 6342, 6343, 6343, 6343, 6343, 6343, 6343, 6345 2393, 6342, 6343, 6345, 8069, 9086 Labarauskas, C. W. 4791 Labarca, C. 2253 Laboratorium Domesticatie Paddestoelen 6120
Laborde, J. 8821
Labrador, J. R. 8746
Labus, S. 4157, 5762
Lacasse, N. L. 1210, 1211, 1680 Lachica, M. 6554, 6693 Lachover, D. 3845, 6985

Lačok, P. 5757 LaCroix, L. J. 4134 Lacy, M. L. 7822 Lado, P. 8727, 8728, 8729 Lado, P. 6/21, 8/28, Ladonin, V. F. 1902 Laetsch, W. M. 8137 Laflèche, D. 1487 Lafon, R. 585 Lagon, R. 585 Lagerstedt, H. B. 3338, 7437 Lagova, E. V. 2596 Lahav, E. 5603, 6385, 9131 Lahiri, B. 3226 Lai, H. 5587 Lai, M. 7794 3338, 7437 Laiche, A. J., Jr. 3838 Laird, E. F., Jr. 2936 Laird, W. M. 6783 Laird, W. M. 6783 Laïsk, A. 2025 Lake, J. V. 3296 Lakhdive, B. A. 3 Lakhidov, A. I. 1232 Lakhina, V. V. 2897 Lakshiminarayana, S. 4872 Lakshmikantham, M. 8213 Lakshminarayana, S. 3210 Lakshminarayana, S. 3210 Lakshminarayana, S. 3210 Lal, B. 5926 Lal, J. 3070, 9028 Lal, N. 668, 2980 Lal, O. P. 8709 Lal, R. N. 3031 Lal, S. B. 1560, 6401, 6402, 9153 9153 Lalatta, F. 1021, 3472, 3475 Lamb, J. G. D. 267, 6213, 7505, 8845 Lamb, K. P. 3184 Lamb, R. C. 8453 Lambert, C. 7620 Lambeth, V. N. 3792 Lamothe, M. de N. de 6398 Lambeth, V. N. 3792
Lamothe, M. de N. de 6398
LaMotte, C. E. 5991
Lamoureux, G. L. 1650
Lampard, J. F. 3004, 7193
Lamprecht, W. O. 8922
Lancaster, L.-A. 7227
Lanckow, J. 5923
Landa, L. 8533
Landfald, R. 6598
Landgren, B. 2738
Landis, B. J. 1216
Landsberg, J. J. 8296
Landsberg, J. J. 8296
Lands, A. 1339
Langcake, P. 6085
Lange, A. 1949, 2921, 3989
Lange, A. 1949, 2921, 3989 Langcake, P. 6085 Lange, A. 1949, 2921, 3989 Lange, A. H. 452 Lange, J. H. de 1470, 4808, 8090, 9102 8090, 9102 Lange, J. M. 921 Lange, O. L. 8426 Langerak, D. I. 7841 Langhans, R. W. 2184, 3850, 4129, 6147 Langille, A. R. 7625 Langlois, N. 770, 771 Langridge, D. F. 3496 Lanphear, F. O. 1316 Lansac, M. 3405 Laouar, S. 8985 Lapins, K. O. 1724, 2541 Laouar, S. 8985 Lapins, K. O. 1724, 2541 Lapperre, P. E. 1623 Larcher, G. 2766 Laré, M. 5599 Larios, J. F. 7718 Larrue, J. 5853 Larsen, F. E. 35, 84, 5716, 6510, 6511, 6533, 7314, 8351 8351 Larsen, P. 5898 Larsen, P. L. 1990 Larson, R. A. 1336, 2289, 6176 Lartaud, G. 6028 Lasareĭshvili, L. N. 5816 Lasheen, A. M. 1727 Láska, P. 4428 Laskowski, A., Sr. 7723 Laskowski, A., Sr. 7723 Lassoudière, A. 378 Last, F. T. 8655, 8689 Lata, P. 5471 Latche, A. 4284

Lategan, S. 8620 Laterrot, H. 2109 Latorre, B. A. 5735 Latorre, I. 4460, 6827 Lattar, F. S. 1506, 7152 Lau, I. 7989 Läuchli, A. 1673 Laughlin, C. W. 2266, 6196, Lavabre, E. M. 1571, 7190 Lavee, S. 1925, 4341, 8327, 9114 Laver, G. 3308 Lavergne, D. 8593 Lavezzi, A. 5846 Lavriĭchuk, I. I. 3284, 7130 Lawrence, B. M. 761, 1413, 3027, 3947, 7965
Lawrence, F. J. 8500
Lawrence, R. H., Jr. 4754, 6162 Lawson, H. M. 1057, 1981, Lawson, H. M. 10 3661 Lazăr, A. 2, 7342 Lazo, F. D. 2454 Lea, P. J. 1701 Leadley, S. 7164 Leafe, E. L. 3296 Leafe, E. L. 3296 Leakey, C. L. A. 387, 2786 Leal, F. 8119 Leal, F. J. 1533 Leamon, K. C. 8531 Lear, B. 5194, 6139 Leather, G. R. 222, 448, 4481 Leather, R. I. 3187 Lebeda, A. P. 1030 Lebedev, V. M. 2573 Lebedeva, T. A. 7444 Leblond, C. 2599 Lebedeva, T. A. 7444 Leblond, C. 2599 Lecker, F. 1162 Leclant, F. 1022 Lecog, J. 5601 Ledovskiř, S. Ya. 254 Lee, B. W. 3992, 5554 Lee, C.S. 7243 Lee, D. K. 533 1050 Lee, D. K. 533, 1059 Lee, D. S. 6522 Lee, E. K. 475 Lee, H. 6758 Lee, H. B. 6834, 8667 Lee, H. S. 1256 Lee, H. T. 3294 Lee, H. Y. 1180 Lee, K. B. Lee, K. H. 1888 Lee, K.-H. 4759, 6282 Lee, K.-H. Lee, K. Y. 11 Lee, O. H. 98 1034, 1035 Lee, O. Y. 37 1108 982, 983, 984, 3737, 5313 6270 Lee, P. E. Lee, P. K. 2345 Lee, S. A. 9198 Lee, S. J. 522 Lee, S. K. 2305 Lee, S. W. 2099, 2100, 2101, 2102 Lee, T. A., Jr. 6 Lee, W. S. 1309 Lee, Y. C. 2305 Lee, Y. K. 2007 Lee, Y.-S. 4472 6197 Leece, D. R. 32, 2612, 3469 Leefe, J. S. 5695, 5696 Leek, A. E. 5174 Leek, A. E. 5174
Leela, D. 9129
Leete, E. 3058
Leeuw, G. T. N. De 1368
Leffring, L. 3903, 7937
Legg, J. T. 1550
Leggett, E. K. 5337
Leggett, G. E. 8290
Leggio, V. J. 3625
Legin, R. 5853
Legrand, F. 9109
Lehmann, G. 7198
Lehmann, W. 7298, 7299, 8326 8326 Lehoczky, J. 5853 Lehtonen, K. 2041, 2042 Leibelt, W. 7091

Author Index Lenz, F. 6353 Leon, A. 492, 6479 León, C. 1212 Leonard, C. D. 3119 Leonard, N. J. 219 Leonard, O. A. 566 Leone, I. A. 1209 Leopold, A. C. 194, 448, 911, 3693, 6843, 6854, 6868 Lepsheva, R. I. 4288 Lepsheva, R. I. 4288 3693, 6843, 6854, 6868
Lepesheva, R. I. 4288
Leplya, E. S. 8005
Leprince, J. P. 6024, 8817
Lerman, S. L. 3710
Lerner, H. R. 1119
Leroux, J.-P. 1258
Lersten, N. R. 2128
Lesaint, C. 1988, 8308
Lesemann, D. 7017, 7570
Leshem, B. 7150
Leshem, B. 7150
Leshem, Y. 9069
Lešínský, M. 5756
Leska, W. 7496
Lester, J. N. 3667
Leston, D. 9143
Letan, A. 8424
Leu, L. S. 4083, 4085, 4087, 9257
Leu, R. P. 2372
Leung, H. K. 4752
Leuthold, L. D. 4924
Leuty, S. J. 3379
Lever, R. J. A. W. 1532
Leverington, K. C. 1651
Levi, C. 5655
Levin, C. 1734 Leverington, K. C. 1051 Levi, C. 5655 Levin, I. 1734 Levina, M. P. 8350 Levittskaya, L. I. 6582 Levitt, J. 5924 Levonen, H. J. 4618 Levy, D. 2086, 2832, 4525 Levy, S. 3778 Lewak, S. 3380 Levy, S. 3778 Lewak, S. 3380 Lewin, J. 3303 Lewis, A. J., III 2787 Lewis, B. G. 2145 Lewis, F. H. 1824 Lewis, L. N. 5572 Lewis, T. L. 5005 Lhérault, P. 7561 Li, H.-L. 8957, 9015 Li, N. 5536 Li, S.-C. 3811 Liacu, A. 2 Liao, T.-H. 647 Liacu, A. 2
Liao, T.-H. 647
Liau, D.-F. 2805
Liau, T. L. 431
Libich, V. 3960
Libizzov, N. I. 8018
Lichadeev, G. I. 1240
Lichev, P. 919
Lichou, J. 5543
Lichtenberg, V. 288

Leigh, D. S. 374
Leigh, D. S. 374
Leigh, D. S. 374
Leigh, D. S. 374
Leigh, C. S. 2316
Leiser, A. T. 2275, 2314, 8939
Leistner, E. 5493
Leistner, E. 5493
Leitao Filho, H. de F. 8671
Lekhova, E. 6605, 8421
Leksan, M. 3383
Leksian, M. 3383
Lekvinadze, P. A. 8072
Lelacheur, K. E. 4426
Leleji, O. I. 5978
Lemaire, J.-M. 1170
Lemaitre, R. 6698
Leman, V. M. 2776, 5356, 8659
Lemanter, M. 2939
Lemke, G. 264, 6951
Lemmers, J. J. 4960, 7347, 8339
Lemmers, C. B. G. 296, 736, 7015
Lemoine, J. 4204, 4291
Lemon, E. 4
Lemperle, E. 1924
Lenartovich, V. 6606
Lenartowicz, W. 7493, 8513
Lendzian, K. 8910
Lenormand, C. 2417
Lenord, C. D. 3119
Lenord, C. D. 3119
Lenord, O. A. 566
Leone, I. A. 1209
Leonard, O. A. 566
Leone, I. A. 1209
Leonard, O. A. 566
Leone, I. A. 1209
Lord, R. 6698
Linder, R. 6698
Linder, R. 6698
Linder, R. 6698
Linder, R. 6698
Lilin, F. P. 6863
Licuime, M. 4460
Liegi, W. 4460
Liegi, J. V. 7573
Lieberra, I. J. 6388
Liebert, I. J. 3638
Liebert, I. J. 3638
Liebert, I. J. 3638
Liebert, I. J. 3638
Lieberman, M. 3335
Liebert, I. J. 3637
Lieberman, M. 3335
Liebert, I. J. 3638
Lieberman, M. 3335
Liebert, I. J. 3638
Lieberman, M. 3335
Liebert, I. J. 3637
Lieberman, M. 3335
Liebert, I. J. 3638
Lieberman, M. 3335
Liebert, I. J. 3638
Lieberman, M. 3335
Liebert, I. J. 3637
Lieberman, M. 3335
Liebert, I. J. 3638
Lieberman, M. 3335
Liebert, I. J. 3638
Lieberman, M. 3335
Liebert, C. A. 1840
Lioyd-Jones, D. V. 8138
Ljones, B. 2489, 6599
Lianos Llanos, R. 8190
Liorente, A. 1840
Liorente, A. 1840
Liorente, A. 1840
Liorente, M. 3335
Liebert, I. J. 3683
Lieberman, M. 3335
Liebert, C. L. J. 3684
Lioyd-Jones, C. P. 8401
Lloyd-Jones, D. V. 8138
Liorente, G. 6479
Lloyd-Jones, D. V. 8138
Liorent Linder, R. 6698
Linder, R. 6998
Linderman, R. G. 2287
Lindfors, S. 115
Lindgren, D. L. 813, 8107
Lindgren, J.-E. 7097
Lindley, C. D. 8310
Lindorf, H. 4856
Lindquist, J. C. 4628
Lindquist, J. C. 4628
Lindquist, J. C. 4628
Lindquist, J. C. 4529, 3809, 4576, 4577, 4712, 5253, 5913
Lindsay, J. 4001
Lindskog, E. 4431
Lindstrom, R. S. 2293, 7043
Linge Gowda, B. K. 8215
Link, H. 484, 2602, 2603
Linn, M. B. 6086
Linnert, G. 2932
Linsalata, D. 4913
Linser, H. 2894, 6502
Linskens, H. F. 275, 3851, 6998 Linsalata,
Linser, H. 2894, 0505
Linskens, H. F. 275, 3851,
6998
Liotta, G. 9098
Lipari, V. 2159, 5159, 6698
Lipe, J. A. 7465, 7466
Lipe, W. N. 6814, 7678
Lipeki, J. 926
Liphschitz, N. 2369
Lipinskii, F. B. 6947
Lipovetskaya, O. N. 6487
Lippert, L. F. 1202
Lippincott, B. B. 6852
Lippincott, J. A. 6852
Lippincott, J. A. 6852
Lipps, H.-P. 1901
Lipton, S. H. 5995
Lipton, W. J. 622, 5167, 5915
Lis, E. K. 8518
Lisiecka, A. 2199
Liška, O. 2366
List, U. 4616
Listopad, A. Ya 6364
Litlere, B. 6237
Litovchenko, E. T. 2559
Little, C. R. 6650
Little, R. C. 3299
Littmann, M. D. 3177, 3179
Littrell, R. H. 2653, 7464
Litvinova, G. V. 1722
Liu, C. L. 5652
Liu, H.-Y. 9204
Liu, L. J. 1853, 8228, 8477,
9251
Liu, M.-C. 7253
Liu, P. B. W. 4441
Liu, P. S. 5712
Liu, S. Y. 4769
Liu, Y. T. 4087

Lord, W. J. 469, 976, 1017, 4997
Lord, W. J. 469, 976, 1017, 4997
Lordello, L. G. E. 2484, 3764, 8152, 9202, 9215
Lordello, R. R. A. 8152, 9215
Lorentzon, K. 5428
Lorenz, O. A. 1968, 5214
Lorenzi, R. 3910
Loreti, F. 503, 505, 1013, 4246, 4247, 5872
Loría Martínez, W. 7779
Lorrain, M. 3950
Lorusso, A. O. 1024
Lossois, P. 1463
Lott, J. N. A. 1990, 8642
Lott, W. L. 1573
Lötter, J. de V. 2574
Lotti, G. 2943
Lotz, E. van der S. 3326, 7286
Loughead, E. C. 1783, 1801, 3009, 3813
Loughnane, D. A. 1332
Loughnane, D. A. 1332
Louguet, P. 2192, 2193
Lourence, F. J. 5354
Lousley, J. E. 861
Loutit, M. 617, 618
Louvet, J. 9109
Louw, C. W. 4089
Louw, C. W. 4089
Louvelidge, B. 3394, 6516

Lovell, P. H. 153, 186, 214, 6804 Loveys, B. R. 194 Lowe, J. S. 4075 Lowe, L. B. 2130 Lower, R. L. 627, 2772, 5969, 8643 8643 Lowry, J. B. 4741 Loy, J. B. 164, 4441 Lozada V., O. 8196, 8197 Lozohnikova, V. N. 7738 Lozovaya, V. V. 8710 Lubej, M. 3965 Lubis, J. R. 4106 Lubkowitz, J. A. 8788 Lucchesi, A. A. 3157 Luchkov, P. G. 3391, 4964, Luchkov, P. G. 3391, 4964, 4965
Lockard, R. G. 1727, 6828
Lockhart, C. L. 109, 5695, 5811, 6685
Lockwood, G. 5610
Loder, J. W. 6311
Lodh, S. B. 8127
Lodhi, G. P. 204
Loebenstein, G. 3130, 3316, 3778, 3999, 5560
Loeser, H. 4695, 4696, 5390, 6999
Loeters, J. W. J. 2186
Loewus, F. 2253
Löhden, A. 3378
Lokhman, S. A. 7498
Lomakin, E. N. 2610
Lomas, J. 5548
Lomkini, E. N. 2610
Lomas, J. 5548
Lomkini, E. N. 2610
Lomg, A. C. 412, 413, 6437
Long, C. E. 4924
Long, D. 2275
Long, J. 7712
Long, P. G. 4834
Loonis, W. D. 1412, 3025, 3948
Looney, N. E. 4264, 5001
Looy, J. Van 8802
Lopatecki, L. E. 4285
Lopatin, V. M. 6797
Lopes, H. C. 4850
Lopes, M. E. 9172
Lopez, C. 4518
Löpez-Duque, S. 9167
López, G. 4764
López-Garcia, J. 1593
Lopez Neto, A. S. 5609
Lopes Pinto, O. 8169
López Sánchez, G. 4764
Lorbeer, J. W. 2831, 5310, 5311, 6838, 8737
Lord, F. T. 956, 5695
Lord, W. J. 469, 976, 1017, 4997
Lordello, R. R. A. 8152, 920, 29215
Lorentzon, K. 5428
Lorenz, O. A. 1968, 5214
Lorenz, R. 3910
Loreti, F. 503, 505, 1013, 4246, 4247, 5872
Loria Martinez, W. 7779
Lorrain, M. 3950
Lort, J. N. A. 1990, 8642
Lott, W. L. 1573
Lötter, J. de V. 2574
Lotti, G. 2943
Lott, L. N. A. 1990, 8642
Lott, W. L. 1573
Lötter, J. de V. 2574
Lotti, G. 2943
Lott, L. N. A. 1990, 8642
Lott, W. L. 1573
Lötter, J. de V. 2574
Lotti, G. 2943
Lott, L. R. 3026
Louguet, P. 2192, 2193
Louceiro, M. C. 4074 4965 Luchnikova, V. S. 1357 8868
McCalley, N. F. 1158
MacCanna, C. 8819
MacCarter, L. E. 2001
McCarty, C. D. 3992, 4783, 5554, 6341
McCaskill, D. R. 595, 4355
MacChia, V. 8598
McClanahan, R. J. 3777
McClish, G. A. 2461
MacColl, D. 8261
McConnell, D. 5416

914 McConnell, D. B. 7877, 8931 MacConnell, W. P. 4127 McCornack, A. A. 4810, 4813, 5574, 8097 McCoy, N. L. 2970 McCoy, O. D. 1202 McCoy, R. E. 1333, 4626, 4627, 5616, 7023 4627, 5616, 7023
McDaniel, J. C. 1396
McDaniel, J. R. 5566
MacDaniels, L. H. 95
McDavid, C. R. 6011
McDonald, J. G. 175
McDoniel, P. B. 7101
McDonnell, P. F. 8336
Mace, M. E. 2120
MacEachern, C. R. 2081
McElroy, F. D. 532
McElroy, F. D. 532
McElroy, F. D. 2484
McElwee, E. W. 5388, 8851
McEwen, T. J. 3013
McEwen, T. J. 3013
McFadden, T. L. 4427
McGlasson, W. B. 383, 1544, 4264 4264
McGlish, G. A. 2435
McGourty, F., Jr. 4607, 7040
McGregor, D. I. 7690
McGregor, S. E. 7282
McGrew, J. R. 5127
Machado, A. A. 3183
Machado, A. D. 4846
Machado, C. A. 5957
Machado, C. de A. 6417
Machado, U. D. 4846
Machado, U. D. 4846
Machado, M. D. 4846
Machado, M. D. 4846
Machado, M. 616. 663 Machado, U. D. 4846 Machała, M. 616, 663 MacHardy, W. E. 4571, 4572 Mchedlidze, G. D. 7137 McHenry, W. B. 710 Machida, H. 6719 Machis, L. 1673 Machold, O. 2045 Machovec, J. 2908 Machuzhenko, V. I. 6899 McIntyre, D. K. 7936 McIntyre, D. K. 7936 McIntyre, G. I. 8698 McKee, G. W. 7625 McKee, M. W. 5769 McKeen, C. D. 3325, McKeen, C. D. 3325, 3789 McKenzie, D. J. 1767 McKenzie, D. W. 5783 McKenzie, L. M. 5861 MacKenzie, S. L. 2318 Mackowiak, M. 6581 Mackowiak, M. 6581 Maclachlan, G. A. 2820 McLane, S. R. 6778 McLaughlin, J. L. 8014, 8015 McLean, A. P. D. 4795 Maclean, M. S. M. 2009 McLeester, R. C. 4484 MacLellan, C. R. 5694, 5695, 5739 5739 MacLeod, R. D. 3725, 3726, 5267 McLeod, R. W. 685 McMechan, A. D. 2584, 5694 McMillan-Browse, P. D. A. 26 McMillan-Browse, P. D. A. McMillan, R. T., 17r. 2125, 3707, 5249, 5540 McMullen, R. D. 1838 McMurchie, E. J. 383 McNab, J. M. 648 McNall, L. R. 8333 McNall, L. R. 8333
McNamara, D. G. 3551
McNamara, D. G. 3551
McNamer, A. 5991
MacNeill, M. M. 2677
McNulty, P. J. 3334
MacPhee, A. W. 5695
McRae, E. A. 5427
McReynolds, J. H. 6286
McReynolds, J. H. 6286
McRitchie, J. J. 7963
McWha, J. A. 8609
McWilliam, J. R. 8292
Maczák, J. 5320
Madan, C. L. 765
Madan, S. K. 633
Madan, Y. P. 851, 7247
Mader, S. 4266
Madhusudanan Nair, P. 8769 Madhusudanan Nair, P. 6390 Madison, J. H. 302 Madsen, H. F. 46, 479

Madzharova, D. 2902, 7667, 8978 Mae, T. 5933 Maeda, H. 2507 Maestri, M. 3697 Maestro Duran, R. 2427 Magalhães, W. S. 3180 Måge, F. 907 Måge, F. 907
Magherini, R. 2425
Magie, R. O. 1358, 5405
Maginnes, E. A. 5428
Magnines, E. A. 5428
Magnifco, V. 7649
Magnitskii, K. P. 9083
Magnus, V. 8731
Magriso, Yu. 2714, 6749
Magyarosy, A. 2774
Mahadeva, K. 6465
Mahadevan, S. 6255
Mahajan, P. N. 6101
Maharana, T. 2926
Mahato, S. B. 6300
Maher, M. J. 240, 1284, 4535, 7786
Mahmood, K. 6006 7786
Mahmood, K. 6006
Mahmood, T. 2411
Mai, W. F. 1105, 1149, 6570,
Maienthal, E. J. 2496
Maier, J. 340, 7087, 7095
Maier, S. 865
Maier, V. P. 5576, 6367, 8108
Maing, I.-Y. 5902
Maini, P. 2506, 4142
Mainland, C. M. 3531
Maire, R. 1326
Maire, R. G. 2275, 2288
Maiti, R. C. 7746
Maiti, S. C. 3235, 3236
Maiti, S. K. 3235 Maiti, S. C. 3235, 3236
Maiti, S. K. 3235
Maiti, S. N. 5334
Majak, W. 8999
Majer, J. D. 6394
Maji, P. N. 8032
Majorana, G. 4796, 6248
Majstorović, G. 3490, 6663
Majumdar, S. P. 9050
Majumder, P. K. 3210, 3217, 3221, 3223, 3230, 3231
Majumder, S. K. 1534, 8156. Majumder, S. K. 1534, 8156, 8157 Makanjuola, G. A. 1184 Makariev, Z. 8421 Makarov, A. A. 4181 Makarova, A. I. 4186 Makarova, G. M. 949, 4947, 7569
Makarski, J. S. 6565
Makasheva, R. Kh. 6001
Makepeace, R. J. 7277
Makhalova, M. R. 672
Makhlaeva, R. F. 6870
Makiguchi, M. 8650
Makkink, G. F. 2793
Makosz, E. 8346
Makovec, K. 1420, 1421, 6280
Maksimov, G. I. 571
Maksimova, T. N. 5699
Makus, D. J. 7517
Malaguti, G. 3775, 8076
Malavolta, E. 864, 3197, 6479, 7703, 8671
Malawi, Department of 7569 Malawi, Department of Agriculture 8580, 9119 Malawi, Tea Research Foundation of Central Africa 1660, 6454, 6455 Malaya, Rubber Research Institute 3252, 3253, 7221, 7222, 8176, 8177, 8178, 8185 Malaya, University of Malaya Faculty of Agriculture 5669 5669
Malcolm, H. D. R. 1820, 5033
Malcolm, J. L. 1594
Malcoste, R. 2766, 3861, 5208
Maleki, Z. 6203
Malenin, I. 5856, 5857, 8557
Malfa, G. La 2159, 5159
Malherbe, N. 5342
Malhotra, S. 4573, 6106
Malhotra, S. K. 656
Malhotra, S. S. 656
Malhotra, S. S. 636
Malik, C. P. 2213

Malik, M. M. S. 1610 Malik, M. Y. 6292 Malik, R. S. 8613 Malik, S. 5514 Malik, S. N. 6292 Malinina, M. I. 4462 Malinskaya, S. M. 1229 Malishevskaya, M. F. 6534 Maliwal, G. L. 2838, 3773 Malkomes, H.-P. 1953, 539 1953, 5394 Mallikarjunaiah, R. R. 6993, Malo, E. 3213 Malo, S. E. 5604, 6409, 8054, 8057 8057
Maltabar, L. 8533
Malý, I. 2852
Malyshev, A. A. 6305
Malyutin, N. I. 1345
Malzer, G. L. 4561
Mamaev, S. A. 2998
Mamarov, P. 1079, 2726, 8537
Mammaev, A. T. 2728
Mamulashvili, G. G. 5224
Manaenkov, A. N. 3430
Manaenkov, A. N. 1 2673, 2674
Manago, M. 3149 Manaenkova, N. I. 2673, 2674 Manago, M. 3149 Manalo, J. A. 1595 Manalo, J. R. 639, 3646 Manchanda, H. R. 7138, 9087 Manciot, R. 9151 Mandahar, C. L. 1259, 3684 Mandal, D. P. 5677 Mandi, J. W. 3272 Mandrau, J.-J. 576 Mandrau, J.-L. 576 Mandrik, V. Yu. 5083, 8933 Mándy, G. 5947 Maness, E. P. 1065 Maness, E. P. 1065
Mani, E. 1766
Manica, I. 1009, 1613
Manipura, W. B. 8269, 9270
Manitto, P. 5901
Manjam, E. 3778
Manji, B. T. 5022
Man'ko, V. V. 7569
Mann, H. S. 8777
Mann, H. J. 760 Mann, H. S. 8///
Mann, J. 760
Mann, N. S. 7250
Manner, R. 6191
Manners, C. J. 12
Manning, W. J. 3904, 3916, 4392, 6839, 6840, 7772, 7864 Manninger, E. 5850 Manninger, E. 5850
Manoukas, A. G. 9115
Manov, S. 7366
Mante, W. 6473
Mantell, S. H. 7013
Mantinger, H. 464, 6560
Manughevici, E. 7343
Mantey, B. 3453 Manughevici, E. 7343 Manušev, B. 3453 Manwani, A. H. 7311 Manzo, P. 3480, 3566 Marais, J. P. 8286 Marais, P. G. 120, 145, 8619 Maraite, H. 4928, 5953 Maramorosch, K. 833, 1373, 3188, 7241 Marangoni, B. 1846, 5029 Marani, F. 1331 Marble, P. M. 6259 Marcellin, P. 5747 Marchal, J. 825, 1524, 1667, 5539 5539
Marchand, D. 6028
Marchesi, G. 6056
Marchesini, A. 3064, 5
Marchetti, L. 6704
Marchoux, G. 6608
Marciani Magno, S. 90
Mareček, J. 2908
Marei, N. 1008, 3455
Marénand C. 510, 18 3064, 5901 Marei, N. 1008, 3455
Marénaud, C. 510, 1808, 3405
Marenkov, V. S. 8508
Maretzki, A. 2476
Margara, J. 8602
Margolin, A. F. 4211
Margraf, K. 7389
Margulies, M. M. 184
Mariakulandai, A. 4090, 8215
Mariau, D. 4877, 5638, 9155, 9188 Mariconi, F. A. M. 7768, 8080

Marieva, G. M. 3590 Marieva, G. M. 8539 Marinesku, V. G. 7554 Marini-Bettòlo, G. B. 6317 Marinis, A. De 6380 Marinov, I. 6493 Marinov, S. 1104 Mariotti, A. 5098 Mariotti, A. 5098 Mariotti, J. A. 8190, 9225 Markakis, P. 8806 Markin, B. T. 5357, 6102 Markin, M. I. 5848 Markkula, M. 1193 Markose, V. C. 8186 Markov, I. E. 7356 Markov, Yu. a. 2526 Markova, M. 6895, 6896 Markova, M. 6895, 6896 Marks, C. F. 7452 Márkus, F. 5321 Marlatt, R. B. 2270, 5452, Marlatt, R. B. 2270, 5452, 5454
Marletta, G. P. 5837
Marocchi, G. 5270
Marousky, F. J. 1327, 6976, 7006, 7901, 8866
Marozzi, N. Q. 1137
Marquis, V. O. 3066
Marr, C. 641
Marrè, E. 8727, 8728, 8729
Marriage, P. B. 1819
Marrou, J. 2119, 5348
Marsbergen, W. Van 2992
Marschner, H. 8308
Marseault, J. 4038
Marsh, A. W. 2376
Marsh, A. W. 2376
Marsh, R. W. 4927
Marshall, D. 221
Marshall, C. 6011
Marshall, D. 221
Marshall, H. H. 4745
Marston, M. E. 2230
Marte, M. 3708, 3805, 4476
Martel, P. 87 5454 Martel, P. 8742 Martens, P. 7634 Martens, P. H. 7609, 7610, 8590 Martin, C. 6814, 7678 Martin, C. E. 4540 Martin, D. 5005 Martin, E. 1553 Martin, E. C. 1200, 7282 Martin, E. S. 5417 Martin, E. S. 5417 Martin, F. A. 188 Martin, F. G. 7946, 9103 Martin, F. W. 5522 Martin, G. 1597, 1599, 16 1597, 1599, 1600, 4070, 7208 artin, G. C. 2637, 3483, 4280, 5042, 8469, 8470 Martin, G. C. 4280, 5042, 8469, 8470 Martin, G. O. 8502 Martin, J. A. 1967, 5400 Martin, J. H. 4408 Martin, J. P. 2458, 6413, 8055 Martin, M. W. 2871 Martín Molino, I. del 6702 Martin, P. E. 2424, 4167, 6355 Martin-Prével, P. 825, 864, 5539 5539 Martin, R. O. 5287 Martín, R. V. 4252 Martin, S. 2145 Martinek, V. 2366 Martinez, A. A. 9215 Martinez, A. L. 2386, 2390 Martinez B., H. H. 7181 Martinez B., H. H. 7181 Martinez-Corbalán, A. 864 Martinez, H. 6755 Martinez, R. R. 8603 Martino, E. di 5578 Martins, A. L. 3584 Martinson, V. 4842 Martinson, V. 4842 Martinson, V. A. 4838 Martinson, V. A. 4838 Martinson, P. J. 7547 Martinson, V. A. 483 Martinsoyan, E. L. 75 Martsenyuk, V. 7487 Martyr, R. F. 4612 Maruff, A. P. 9269 Marutf, A. P. 9269 Marutyan, S. A. 1123, 1927 Marval, P. 7992 Marvasi, C. 6704 Marwitz, R. 832 Marx, G. A. 2817 Mašek, V. 3421

Author Index Masera, O. 7358 Mashanov, V. I. 4740 Mashchenko, N. D. 1923 Mashchenko, N. D. 1923 Mashev, N. P. 684, 6803 Mashkova, E. P. 5700, 5701 Mashkovich, I. K. 7664 Maslekar, S. R. 5301 Maslov, S. P. 5699, 8374 Mason, D. T. 5089 Mason, E. C. 8820 Mason, G. 4329 Mason, H. C. 5335 Mason, G. 4329
Mason, H. C. 5335
Mason, J. F. 1292
Mason, J. L. 3431
Masoner, M. 3021
Masry, S. El 6301, 6302
Massey, L. M., Jr. 4583
Massfeller, D. 3672
Mastalerz, J. W. 6983
Masuda, Y. 138, 2822, 8599
Masui, M. 1998
Mata, N. R. H. 8647
Matamoros Ramírez, F. 5635 Mata, N. R. H. 8647
Matamoros Ramírez, F. 5.
Mateeva, D. P. 3026
Matelli, G. P. 5853
Matey, Ĭ. 6108
Matey, T. 6070
Matevska, M. 5109
Matevska, N. 1084, 2712, 7552 5635 7552 Mathai, C. K. 1535 Máthé, I. 7114 Máthé, I., Jr. 7114 Mathen, K. 9159 Mathenge, W. M. 1584 Matherne, R. J. 4883, 9231, 9239
Mathes, T. D. 1565
Mathew, C. 4052
Mathew, J. 7145
Mathew, P. K. 835, 9164,
9165 Mathew, P. K. 835, 9164, 9165
Mathews, P. K. 835, 9164, 9165
Mathews, L. 7302
Mathews, L. 3988
Mathis, P. 7708
Mathur, B. K. 848
Mathur, B. K. 848
Mathur, B. S. 9267
Mathur, D. L. 7694
Mathur, D. L. 7694
Mathur, D. L. 7694
Mathur, J. R. 8011
Mathur, M. M. 8743
Mathur, R. K. 3030
Mathur, R. K. 3030
Mathur, T. 8657
Matoba, F. 622, 6790
Matos, N. 9172
Matrenina, R. M. 8965
Mats, M. N. 783
Matsubara, H. 7001
Matsuda, K. 5460
Matsuda, K. 5460
Matsui, C. 2388
Matsub, C. 2388
Matsub, C. 2388
Matsub, T. 6825
Matsumoti, K. 5577
Matsuo, E. 8660
Matsushita, K. 5983
Matta, A. 6084
Matthee, F. N. 5060, 5130, 5733, 7576
Matthews, S. 6871
Mattick, L. R. 1127
Mattock, L. R. 1127
Mattock, L. R. 1127
Mattock, J. R. 2238
Mattos, J. R. de 4708
Mattson, R. H. 2952
Matuo, T. 2057
Matusiewicz, E. 7080
Matveenko, L. F. 5534 Matuo, T. 2057
Matusiewicz, E. 7080
Matveenko, L. F. 5534
Matveeva, R. F. 5723
Mátyus, M. 246
Maugenet, J. 5065
Maul, O. 245
Maurer, A. R. 8500
Maurer, K. J. 1047, 4966
Mavi, G. S. 2473
Maw, G. A. 2135, 2755, 7798, 8789 Mawick, J. 8945 Maxie, E. C. 1462 Maximos, S. 1479 Maxon Smith, J. W. Maxwell, N. P. 9089 3642

May, D. 8614 May, J. 8388, 8390 May, P. 552, 6765 Mayak, S. 2297, 3922 Mayer, A. M. 1119 Mayer, W. 5989 Maynard, D. N. 606, 632, 1063, 1950, 1957, 3912, 4424, 8949 Maynhardt, J. T. 7478
Mazanashvili, T. G. 5758
Mazanashvili, T. G. 5758
Mazela, A. 663
Mazhorov, E. V. 5721
Mazomenos, B. 9115
Mazurenko, M. T. 5483
Mazza, C. A. 4518
Mazzurenko, M. T. 5483
Mazza, C. A. 4518
Mazzurenko, U. 1190, 3664, 4454, 4625
Meade, N. 2854
Measures, M. 7689
Medcalf, J. C. 4065
Medin, A. 3447, 3456
Medina Acevedo, J. C. 4764
Medina, C. 4789 Medina Acevedo, J. C. 4764 Medina, C. 4789 Medina, J. C. 4764, 8671 Medrano, C. 8173 Medrano, C. E. 7992, 8141 Medvedev, B. N. 1996 Medvedev, V. V. 8288 Medvedeva, T. N. 908 Mee, G. W. P. 403 Mee, G. W. P. 403 Mee, J. M. L. 3258 Meehan, C. N. 4183 Meeldijk, B. P. 4434 Meenakshi, G. 2807 Meer, F. A. van der 6564 Meer, F. A. van der 6564 Meetren, U. van 719 Meeuwse, P. 8416 Meeyot, W. 4682 Meggitt, W. F. 5445, 5446, 8684 Meggitt, W. F. 5445, 5446, 8684
Mehendale, H. M. 2033
Mehlis, E. 7895
Mehlquist, G. A. L. 7040
Mehrotra, N. K. 7550
Mehrotra, O. N. 7758
Mehta, K. G. 8266
Mehta, S. S. 7670
Mehta, U. 7879
Mehwald, J. 1243, 6837
Meijaard, D. 6775
Mejis, M. Q. Van der 2186
Meinwald, J. 5415
Meister, H. 3053
Meijaard, D. 6775
Mejis, M. Q. Van der 2186
Meinwald, J. 5415
Meister, A. 5411
Meister, H. 5221
Meith, H. C. 4167
Mekhandzhiev, A. D. 3026
Melamed-Madjar, V. 3808
Melekhov, E. I. 5984
Meleshko, V. O. 6721
Melet, D. 4398
Meli, T. 5059
Melichar, F. 8455
Melichar, F. 8456
Melichar, Meli, T. 5059 Melichar, F. 8455 Melin, P. 824, 825, 4038, 5602, 6387, 9133 Melkonyan, A. S. 5842 Mel'kumova, Z. 8542 Mellenthin, W. M. 906, 1841, 1842, 5791, 6648 Mello Filho, A. de T. 3764 Mel'nikov, V. E. 1272, 1276 Mel'nikova, L. M. 8899 Melo, J. de S. 417, 428, 6432, 6433 Melouk, H. A. 759 6433
Melouk, H. A. 759
Menary, R. C. 3247
Mence, M. J. 1230
Mendel, K. 9080
Mendes, O. 2385
Mendham, N. J. 7206, 7207, 7209, 7210, 7211, 7214
Mendicino, J. 2044
Mendicino, J. 2044
Mendicinojul, K. 8323
Mendonça, A. de 5853
Mendonça, A. de 5853
Mendonça, M. de 4889
Mendoza, J. A. 7992, 8141
Mendoza, L. A. 7077
Mendoza P., V. 8459

Meneve, I. 4689 Menezes Sobrinho, J. A. De 227 Mengel, K. 128, 1295 Mengel, K. 128, 1273 Menon, K. S. 7188 Menon, M. A. 7216 Menon, T. C. M. 361 Menshawi, Z. A. 8210, 8250 Menzel, K. 4652, 5421, 6169, Menshawi, Z. A. 8210, 8250
Menzel, K. 4652, 5421, 6169, 6170, 6171
Merényi, K. 7508
Merkel, D. 7789
Merkel, K. E. 4909, 4910
Merkle, M. G. 5226
Merlini, L. 6245
Merlo, P. A. 4628
Mertensen, M. A. 6264
Mertia, N. S. 1273
Merwe, J. J. H. van der 5130, 7318, 7576
Meshcheryuk, G. I. 763
Mesnier, Y. 5065
Mespel, G. J. van der 473
Mespel, G. J. van der 473
Mespel, G. J. van der 473
Mespel, G. J. van der 4302
Mesquita, A. 3192 Mespel, G. J. van der 4302 Mesquita, A. 3192 Mesquitela, J. C. 9172 Messenger, P. S. 2501 Messiaen, C. M. 4539, 4568, 5294, 5329, 6836, 7823 Messing, J. H. L. 3299 Mester, I. M. 5122, 5123 Mestres, R. 3327 Metcalfe, E. D. 6136 Meteřko, T. Ya. 6098 Méthy, M. 6485 Metlitskiř, Z. A. 7363, 8366, 8367 Metriskii, Z. A. 7505, 8506, 8367 Metz, J. 4131 Metz, K. 4411 Metzger, B. 2181, 7950 Metzner, R. 1859 Meuldermans, W. 3653, 3758 Mexico, Centro de Investigaciones Agrícolas del Noreste 5794
Meyer, F. G. 1385
Meyer, J. 85, 1884, 4274, 5784
Meyer, J. A. 864
Meyer, J. H. 409
Meyer, J. P. 6386
Meyer, M. M., Jr. 2917
Meyer, R. H. 3411
Mhedhbi, A. 4369, 4587
Miana, G. A. 1402, 5480
Miao, Y. L. 7828
Michael, A. H. 2922
Michael, I. F. 1514
Michail, S. H. 4456
Michalkiewicz, D. M. 2326 Investigaciones Agrícolas del Michail, S. H. 4456
Michalkiewicz, D. M. 2326
Michel, F. 6021
Michele, A. De 817, 818
Michelson, L. F. 4127
Michl, J. 8455
Micke, W. C. 3450, 4167
Mickelsen, O. 6018
Middelem, C. H. Van 8627
Miflin, B. J. 217, 2748
Migliori, A. 2119, 5348
Mignucci, J. 850, 8228
Mihaela, A. 6294
Mihan, P. E. 752
Mihashi, K. 3005 Mihan, P. E. 752 Mihashi, K. 3005 Mihashi, S. 3068 Mihov, A. 3620 Mijala, Kh. I. 51 Mijačika, M. 6630 Mijailova, P. T. 6400 Mijušković, M. 6982 Mika, A. 7395, 7402, 8362 Mikaelyan, L. N. 5336, 5487 Mikeladze, E. G. 6750 Mikhailov, Ts. 5722 Mikhailova, G. D. 924 Mikhailova, S. 6749 Mikhailova, G. D. 924 Mikhailova, S. 6749 Mikhailova, V. P. 1457 Mikhaleva, G. V. 7532, 8511 Mikheeva, M. V. 5699 Mikhno, A. N. 2051 Mikhov, A. 3620, 3621 Mikkilä, T. 5413 Mikolajczak, K. L. 4761

Miksche, J. P. 331, 3010 Mikuckis, F. 2632 Milaire, H. G. 912 Milanov, B. 6873, 7366, 8421 Milbocker, D. C. 4691, 4697, Milbocker, D. C. 4691, 4697, 6216
Milborrow, B. V. 3718
Milbrath, J. A. 7475
Miles, N. W. 4924
Millerić, R. 2520
Milheiro, A. V. 2381
Milholland, R. D. 1868
Miljković, I. 7457
Millar, A. A. 3713, 7582
Miller, C. H. 627, 5209, 5969
Miller, D. E. 181
Miller, G. E., Jr. 3048
Miller, J. D. 8254
Miller, J. D. 8254
Miller, J. W. 1559
Miller, M. 5549, 5550
Miller, M. 94001
Miller, M. P. 4001
Miller, R. 7995
Miller, R. 7995
Miller, R. A. 1306, 4590
Miller, R. E. 3825
Miller, R. J. 6307 6216 Miller, R. J. 6307 Miller, S. L. 286 Miller, T. D. 5787 Millhollon, R. W. 4883, 8204, Millhollon, R. W. 4883, 8204, 9239
Millier, W. F. 54
Millikan, D. F. 67, 96, 6707, 7381, 8402
Millikan, D. F. 67, 96, 6707, 7381, 8402
Millik, K. 5706, 8413, 8471
Mills, G. A. 1474
Mills, G. A. 1474
Mills, H. H. 525, 5020, 8432
Milne, D. L. 6373, 7168
Milovanović, S. 2522
Milstead, J. E. 4955
Mimaud, J. 4138, 5680
Miminoshvili, P. B. 3159
Mimura, L. 6447
Minelli, A. 5771
Mineo, A. 9098
Mineo, G. 9098
Ming-shu Ho 8833
Minh, T. V. 2646
Minina, S. A. 8039
Mininberg, S. Ya. 5138
Ministry of Agriculture for
Northern Ireland 4123
Mink, G. I. 5709
Minker, E. 4775, 9038, 9056
Min'kov, B. P. 6267
Minkov, I. 3651, 6876
Minnhaar, J. 4700, 6222
Minocha, S. C. 3631
Minoiu, N. 8389, 8474
Mir, I. 8036
Miranda Filho, J. B. 6934
Miraschiev, B. 1907
Mircea, I. 5706, 7307, 7426 9239 Miraschiev, B. 1907 Mircea, I. 5706, 7307, 7426 Mircetich, S. M. 511, 5768, Mircetich, S. M. 511, 5768, 6633
Miremadi, A. 810
Mirică, A. 8482
Mirică, I. 8482
Mirocha, C. J. 4928
Miroslavov, E. A. 354
Mirpayazov, Kh. 1304
Mirzaev, M. N. 2728
Mirzaev, Yu. 5068
Mirzoyan, A. T. 9276
Misaka, K. 3324
Mišev, A. 2520
Mishanec, W. 2817
Mishra, D. 6093
Mishra, H. R. 143, 1011
Mishra, K. A. 493
Mishra, K. A. 493
Mishra, R. R. 8772
Mishra, R. R. 8772
Mishulina, I. A. 5481, 5482
Mishic, P. D. 2519, 3377, 3382, 3505, 3537, 4177
Mišković, R. 6700
Misra, A. 6894
Mišra, A. K. 8942 6633 Misra, A. 6894 Misra, A. K. 8942 Misra, G. 8969, 9017

Misra, R. S. 2482, 9284 Misra, S. K. 8266 Misra, S. S. 852 Mital, S. P. 8998 Mitchell, A. F. 7034, 7035 Mitchell, C. B. Mitchell, E. D. 6778 3028 2795, 3714 3450 Mitchell, E. K. Mitchell, F. G. Mitchell, J. E. 211, 1231 Mitchell, J. W. 2801, 3720 Mitchell, J. W. Mitchell, R. C. 5181 7833 Mitchell, R. E. Mitchell, W. C. 5451, 5653 Mitov, P. 4255, 4967 Mitra, A. R. 8032 Mitra, C. R. 9017 Mitra, C. C. 6287, 8087 Mitrakos, K. 5687 Mitrokhin, A. N. 8653 Mitscher, L. A. 2349, 2370, 2372
Mitsuhashi, H. 3057
Mitsuro, I. 7904
Mittler, T. E. 7282
Mitu, M. 2
Miura, Y. 2938
Miyagawa, H. 5959
Miyakawa, T. 2388
Miyamoto, J. 6758
Miyasaka, S. 8671
Mizrahi, I. 7077
Mizrahi, Y. 2553
Mizuno, N. 2577, 2730
Mizuno, S. 7153
Mervali, V. G. 4897
Moberg, E. L. 3893
Moberly, P. K. 414, 1626, 7257, 9230
Mochalkin, A. I. 21, 1241 7257, 9230
Mochalkin, A. I. 21, 1241
Mochizuki, H. 2111, 2859
Mock, T. 1326, 3007, 7847
Modi, V. V. 3210
Modic, D. 6536
Modlibowska, I. 1781
Modrić, I. 3384
Moe, R. 6230, 7908
Moffa, A. 562
Moffitt, H. R. 987
Moffitt, S. 225
Moghazy Shoaib, A. M. El Moghazy Shoaib, A. M. El 3079 Moh, C. C. 636 Mohacsy, K. 6720 Mohammed bin Mohammed Ali Mohan Ram, H. Y. 3056, 7879
Mohanasundaram, M. 381
Mohapatra, A. R. 3176
Mohr, H. 3012, 3021, 7305
Mohr, H. C. 1993
Mohsenin, N. N. 980
Mohsin, M. 2031
Moilliet, T. K. 957
Moĭnova, E. G. 3026
Moĭnova, K. 8594
Mojica, M. L. 3699
Mok, C. K. 3244
Mokrá, V. 7910
Mokrzecka, E. 126 7879 Mokr, C. K. 3244 Mokrá, V. 7910 Mokrzecka, E. 126 Mol, C. P. 2268 Mola, J. L. 8041 Molan, V. 6490 Molchanov, E. F. 453, 496, 1741, 3404, 7327, 8435 Molina, R. 6911 Moline, H. E. 5991 Mollenhauer, H. H. 6856 Moller, W. J. 7451 Möllhoff, E. 4143 Molnár, J. 5732 Molnar, J. M. 2290 Molokhova, L. G. 8023 Molot, P. 6698 Monache, F. Delle 772 Monaco, T. J. 627, 2237, 5209, 6068 Monastyretskaya, E. V. 6091 Mondeshka, P. 7467 Mondeshky, L. M. 4432 6098

Mongelard, J. C. 2468, 4100, 6447, 8203, 8249 Monin, A. 4232 Monina, O. I. 8018 Monreal, K. 1917, 1918 Monselise, S. P. 368, 4005, 4014, 4807, 7149, 8083, Montag, A. 3801, 3993 Montagut, G. 787, 5539 Montalbini, P. 3708, 4476, Montaldi, E. R. 4397 Montalvo-Zapata, R. 6449, 8251 Monteiro, A. R. 9202 Monteith, J. L. 4 Montes, M. 8991 Montgomery, H. B. S. 7320 Montgomery, I. G. 1074 Montoya Maquin, J. M. 4047 Montoya Maquin, J. M. 4 Monzada, H. 820 Monzon P., D. 7695 Mooi, J. 7845 Mooken, J. D. 773, 9048 Mookherjee, B. D. 7987 Moon, R. E. 1334, 8841 Moore, E. L. 675 Moore, E. L. 675 Moore, F. D. 4413 Moore, J. N. 537, 2709 Moore, K. G. 153, 186, 6804 Moore, L. D. 740 Moore, L. D. 740 Moore, P. H. 1646, 2465 Moore, P. W. 4787 Moore, P. W. 4787 Moore, R. 6569 Moore, R. K. 4601, 6956 Moorthy, N. V. N. 3210, 4872, 7205 Mor, I. 3311 Moraes, F. R. P. de. 3199 Morales Abanto, A. 7167 Morales C. 4465 Morales Abanto, A. 7167
Morales, C. 4465
Moran, V. C. 5566
Moravec, I. 5881
Moravec, J. 4444, 4580, 6118
Moravets, I. 5881
Moravets, I. 5881
Moreal, G. N. 4903
Moreau, B. 7174
Moreau, C. 1388
Moreau, J.-P. 762
Moreau, M. 1388
Morehead, G. W. 1761
Moreira. C. S. 3157
Morel, G. 7102
Moreno, D. S. 5565
Morettini, A. 516, 2419, 3164, 3167 3167 Morgan, B. J. W. 4612 Morgan, E. D. 4751 Morgan, J. V. 7781 Morgan, M. 7229 Morgan, N. G. 2504 Morgan, P. W. 5688, 7465, 7466 Morgat, F. 4227 Mori, P. 2600 Mori, Y. 5983 Morin, C. W. 5587 Morin, D. M. 5656 Morin, J. P. 5638 Morin, J. P. 5638 Morini, S. 83 Morisset, C. 6930 Morkel, W. van der B. 3308 Moroshan, E. A. 1092 Morozova, T. V. 2623 Morré, D. J. 2951 Morrell, G. 1782 Morris, B. 8917 Morris, D. A. 216, 5270 Morris, D. A. 216, 5279 Morris, J. L. 4372 Morris, J. R. 595, 4355 Morris, K. P., Jr. 4718 Morris, L. G. 7295 Morris, W. C. 4691, 6216 Morrison, F. D. 4924 Morrison, L. S. 5463 Morrison, R. D. 1334, 8841 Morrison, R. H. 2287 Mortinson, K. H. 2267 Mortensen, M. A. 6265 Mortiner, F. 3949 Mortimer, M. J. 7924 Morton, J. F. 5944, 9145

Morton, J. K. 761, 1413 Morvan, G. 6608 Mosandl, A. 1128 Mosconi, R. 1117 Moser, E. 7502 Moshkov, B. S. 2881, 7806 Moshonas, M. G. 2412, 4023 Moskalenko, K. M. 6615, 6618 Moskaleva, G. I. 5917 Moss, D. N. 3, 3256 Moss, G. I. 805, 1501, 4793, 6357 6357
Mossadeghi, N. 1989, 3934
Mosse, B. 6880
Mostafa, M. B. 2231, 2240
Mostolovitsa, K. Yu. 4290
Mota, M. I. 7184
Moti 2731
Motial, V. S. 352
Moţoi, E. 8474
Motomura, Y. 7589
Motoyama, E. 5567, 5568, 8086 Motomura, 1. 7389
Motoyama, E. 5567, 5568, 8086
Mott, R. L. 6110, 6111, 6112
Motuzova, G. V. 3120
Mouries, C. 9065
Moursi, M. A. 8042, 8043
Moussa, F. 7800
Moussa, F. F. 4581
Mousset 4027
Mouzin, T. E. 3477
Movchan, V. G. 1912
Mowat, W. P. 5437
Mowry, J. B. 3374
Moyr, J. B. 3374
Moyr, J. C. 1127
Mrozek, R. F. 55
Mrozowski, M. 7362
Mudd, J. B. 9072
Mueller, R. T. 1480
Mughogho, L. K. 2011, 2014, 5973, 5975
Mugwira, L. M. 2019 5973, 5975 Mugwira, L. M. 2019 Mukerji, K. G. 2849 Mukewar, P. M. 2601 Mukhamedov, L. R. 11 Mukhanin, V. G. 2588 Mukherjee, B. 1436 Mukherjee, D. P. 9125 1183 Mukherjee, B. 1436 Mukherjee, D. P. 9125 Mukherjee, I. 3770 Mukherjee, K. 8013 Mukherjee, S. K. 3210, 3215, 3217, 3220, 3221, 3223, 7545, 8321 Mukherji D. K. 7069 7545, 8321 Mukherji, D. K. 7068 Mukherji, S. 2754 Mukhin, E. N. 3689 Mukhopadhyay, A. N. 2319 Mukhortova, T. G. 4740 Mulas, G. 3729 Mulas, G. 3729
Mulder, D. 3325
Mulder, D. 4110, 4111
Mulder, N. J. 8163, 8171
Mulinge, S. K. 3202, 3205
Mulkey, W. A. 620, 4439
Müller, E. 6622
Müller, E. W. 4415
Müller, F. 2497
Muller, G. J. 6086
Müller, G. W. 4797
Müller, H. 5198
Müller, H. J. 1419, 1746
Müller, H. J. 1419, 1746
Müller, H. W. K. 3550, 7540
Müller, H. W. K. 3550, 7540
Müller, L. 7167
Müller, L. 7167
Müller, L. 7167
Müller, P. J. 290, 2947, 2956, 2957, 7007, 8905
Muller-Stock, A. 6049
Müller, W. 1738
Multamäki, K. 7019
Mumford, L. M. 1237
Muminov, T. G. 6809
Mun, H. T. 4076
Mun Hwang Ting 4076
Munner p. 6370 Mulder, D. 3325 Mun, H. 1. 4076 Mun Hwang Ting 4076 Munk, W. J. de 3880 Munk, W. J. de 6185, 7909 Munnecke, D. E. 1020, 3316 Munoz, F. 5403 Muñoz S., C. 3471 Munro, H. E. 2104

Munro, O. D. 6729 Munshi, S. K. 7161, 7162 Munson, S. T. 8669 7768, 8080 Murai, N. T. Murail, M. C. 1511 Murakami, H. 8126 Murakami, Y. 7869 Muranishi, S. 8574 Murant, A. F. 4317 Murashige, T. 731, 794 Murata, T. 9105 Murata, Y. 4 Muratović, A. 2607, 6613 Muratović, S. 6660 Murav'ev, A. A. 8366, 8367 Murav'ev, I. A. 6299 Murav'ev, Yu, N. 2617 Murawski, H. 923 Murdock, D. I. 6363 Murdock, D. I. 6363 Muromtsev, I. A. 255 Murozono, M. 6826 Murphy, E. F. 8499 Murray, D. R. 6850 Murray, J. S. 7035 Murray, K. E. 4826 Murray, J. S. 7055 Murray, K. E. 4826 Murray, M. G. 226 Murray, M. J. 1415, 6259, 9000 1415, 3945, Murray, S. A. 3820 Murtazov, T. 441, 4379, 4536, 4547, 4555, 5333, 6494, Murtazov, T. 441, 4379, 4536, 4547, 4555, 5333, 6494, 7682, 8303, 8767, 8771

Murthy, K. N. 3176

Murthy, K. S. 7078

Murthy, N. S. N. 392

Murti, V. V. S. 758, 3069

Murty, A. S. 8874

Musard, M. 2118, 5348

Musch, A. 7880

Muse, B. D. 740

Muse, R. R. 740, 5450

Muschold, J. 8801

Musgrave, R. B. 3

Musich, N. I. 8485

Musich, V. N. 8485

Musich, V. N. 8485

Musiyaka, V. K. 2051

Müssel, H. 4669

Mustafee, T. P. 4455

Mustard, M. J. 7051

Musumeci, M. R. 4473

Mutch, W. E. S. 7035

Muthappa, B. N. 8149, 8150

Muthukrishnan, C. R. 3578, 9177

Muthukrishnan, T. S. 7762 9177 Muthukrishnan, T. S. 7762 Muthuswamy, S. 3210, 3240, 4044, 4871, 6443, 9227 Mutsenietse, D. Kh. 6853 Mutsenietse, D. Kh. 6853 Mutsers, P. 698 Muzacz, R. S. 1333 Muzychenko, P. I. 1109 Myburgh, A. C. 4950 Myburgh, J. 232 Myers, J. M. 1659 Mytsyk, L. P. 5447 Nabawy, S. M. El 2414, 2439, 2440 Nabawy, S. M. El 2438 Nadezhina, T. P. 4768 Naef-Roth, S. 2055 Nag, K. C. 3038, 7086 Nag, T. N. 1433, 1439 Nagai, Y. 1999 Nagalakshmi, S. Nagalakshmi, S. 332 Nagao, M. 8886 Nagappan, K. 5223 Nagar, P. K. 9175 Nagarajan, K. 6818 Nagarajan, M. 4853 Nagarajan, S. 6239 Nagasampagi, B. A. 9039 Nagasampagi, B. A. 9039 Nagasawa, K. 3145, 3168 Nagel, C. W. 557, 597, 1081 Nagell, A. 3032 Naggar, S. El 1479 Nagl, W. 2087, 2798 Nägler, M. 8482 Nagy, A. 5086 Nagy, A. 5086 Nagy, F. 6261 Nagy, K. A. 7935 Nagy, L. S. 6766 Nagy, R. 5850

Nagy, S. 1497, 1498, 3156, 8100 Nahlawi, N. 1850, 5061 Nahrstedt, A. 2626 Naĭdenova, I. N. 5825 Naĭdina, L. 8533 Nainawatee, H. S. 3336 Nair, A. G. R. 2341, 3035, 4771, 6304, 9285 4/1, 6304, 9283 Nair, K. R. 1641 Nair, M. G. 8031 Nair, N. G. 2905, 3828, 7832 Nair, P. K. B. 7940 Nair, P. M. 6390 Nair, R. B. 7172 Naithani, S. P. 8253 Naito, R. 6620 Naka, J. 6000 Nakagawa, H. 5366 Nakagawa, S. 5043 Nakajima, T. 3107 Nakamura, H. 1698, 2704, 2851, 3329, 4546, 4900. 4936

4936
Nakamura, S. 2307
Nakanishi, J. 4799
Nakano, M. 218
Nakano, O. 3757, 5957, 6417
Nakasone, H. Y. 3175, 9191
Nakayama, A. 432, 4112
Nakayama, M. 3022
Nakayama, M. 3022
Nakov, B. 8622
Nalbandyan, R. A. 5863
Naletov, B. G. 5190
Nambiar, K. P. 831, 1556
Nambiar, M. C. 7968
Nambiar, P. K. V. 7072, 7978
Namekata, T. 2056
Nance, J. F. 7735, 8730
Nand, D. 559, 568, 9283 Nambiar, P. K. V. 70/2, 79/8
Namekata, T. 2056
Nance, J. F. 7735, 8730
Nand, D. 559, 568, 9283
Nanda, K. K. 2930, 4632, 5455, 7883, 7884
Nandpuri, K. S. 235, 677, 7075, 7982, 8664
Nangia, R. P. 589, 590
Nanney, J. 8866
Nansen, P. 3898
Napitupulu, L. 9206
Nara, J. 5663, 8273, 8274
Narang, R. S. 8741
Narasimha Rao, G. 8213
Narasimha Rao, P. V. 8213
Narasimhan, K. S. 8156, 8157
Narasimhan, K. S. 8156, 8157
Narasimharao, B. G. V. 6256
Narayana, M. R. 1418
Narayana Moorthy, N. V. 4872

Narayanan, R. 3251, 6420, 6426 Narayanan, V. 4717 Narayanan, v. Narayanasamy, P. 4639 Narayanaswamy, B. C. 13 Narayanaswamy, S. 9022 1360 Narayanaswamy, B. C. 136 Narayanaswamy, S. 9022 Narcy, J.-P. 2939 Nard, M. Le 6183 Nardin, C. 5740 Nariani, T. K. 3316, 8058 Nascimento, I. F. do 3180 Nash D. T. 319 Nascimento, I. F. do 3180 Nash, D. T. 319 Nasimov, A. 3571 Nasimov, A. N. 1905 Nassar, A. R. 449 Natali, S. 5872 Natali'ina, O. B. 578, 5129, 7574

4872

Nataraja, T. 7297 Natarajan, C. 838 Natarajan, C. P. 332, 8156, 8157 Natarajan, P. N. 3077

Natarajan, S. 845, 4053, 6429,

Natarjan, C. P. 6247 Nath, P. 1178, 4892, 7670, 7694, 8596, 8644 Nation, H. J. 891 Natividade, J. V. 2518 Naton, E. 1764 Natsvin, A. V. 1718 Natsvlishvili, V. I. 673 Naude, E. 1906, 8535 6738

Nauer, E. M. 794, 6328, 6334, 7141, 8099

Naumann, W.-D. 947 Naumann, W. D. 7521 Naumova, G. A. 2692, 4323 Naumova, G. E. 7112 Nauriyal, J. P. 807, 1509,

Naurzokov, Yu. Kh. 3393 Navara, J. 3735 Navarrete, A. 3679

Navarrete, A. 3679
Navarro, A. A. 6902
Navarro, S. 3139, 8088
Nayak, U. R. 348, 7105
Nayar, P. V. 8291
Nayudu, M. V. 4096
Nazarova, Sh. I. 5289
Nazmi Sabri, N. 6301, 6302

Nazrala, M. L. 6755 Ndawula-Senyimba, M. S.

Ndawula-Senyimba, M. S. N'diaye, A. M. 2416
Neal, J. M. 8015
Nearn, R. H. 6311
Nederpel, W. C. 2233
Nedev, N. V. 7485, 8480
Nedopil, F. 6281
Nedranko, L. V. 6907
Neel, P. L. 2275, 2979
Neely, D. 6211
Neff, A. 7580
Negi, O. P. 8253
Negi, S. P. 7216
Negi, S. S. 5869
Negm, A. A. 8239

Negi, S. S. 5869 Negm, A. A. 8239 Negm, F. B. 1154 Negoda, V. I. 927 Negovelov, S. F. 5700, 5701 Neil, L. J. 3674 Neilands, J. B. 174

Nekrasova, K. K. 2627 Nel, A. C. 5853 Nelchinov, I. 339 Nelen, E. S. 2162 Nelson, C. E. 6264, 6265 Nelson, F. E. 7593

Nelson, F. E. 7593 Nelson, J. 3014, 5221 Nelson, J. W. 1066 Nelson, K. E. 596, 3599 Nelson, M. M. 1039, 3503 Nelson, P. E. 1886, 2922, 4584, 4620, 5408, 5476, 8764

Nelson, P. V. 2189
Nema, K. G. 6823
Nemec, S. 108, 3536
Németh, M. 3359, 8437
Nemirovs'ka, E. I. 6736
Nemirovs'ka, E. I. 6736
Nemistiveridze, L. V. 3278
Nenić, P. 6588, 7317
Nenov, S. 1909, 8537
Neronova, N. L. 4299
Nesbitt, W. B. 1898, 2706
Neshta, I. D. 8005
Nesius, K. K. 2298, 8955
Nešpor, L. 3054
Nesterov, Ya. S. 2530, 6521
Nesterova, I. P. 4504
Netherlands, Consulentschap t

Netherlands, Consulentschap te Hoorn 6184

Netherlands, Consulentschap voor Champignonteelt 6120

Netherlands, Consulentschap voor de Tuinbouw, Limburg 3422

Netherlands, Instituut voor Bodemvruchtbaarheid 4956, 5095, 5151, 6962 Netherlands, Instituut voor Plantenziektenkundig Onderzoek 5073, 5698,

6772, 6961 Netherlands, Instituut voor Tuinbouwtechniek 5, 23, 100, 1132, 1314, 1972, 7285, 8581

Netherlands, Laboratorium voor Bloembollenonderzoek Netherlands, Landbouw-

Economisch Instituut 7853

Netherlands, Proefstation voor de Bloemisterij in Nederland te Aalsmeer 6126 Netherlands, Proefstation voor

de Boomkwekerij te Boskoop 2516, 4604 Netherlands, Proefstation voor de Fruitteelt 5697, 6670 Netherlands, Proefstation voor

de Groenten- en Fruitteelt onder glas te Naaldwijk 704

Netherlands, Proefstation voor de Groenten- en Fruitteelt onder glas te Naaldwijk 1068

Netherlands, Proefstation voor de Groenten- en Fruitteelt onder glas to Naaldwijk 1135

Netherlands, Raad van Nederlandse Bloembollenondernemers, Afdeling Afzetbevordering 6165

6165 Nettles, V. F. 3663, 6061, 7752, 7779 Neubauer, S. 2356 Neubeller, J. 1002, 1004 Neubeller, J. 1002, 1004 Neumann, D. 941, 942, 943,

Neumann, G. 6103 Neumann, K.-H. 1307 Neumann, K. H. 8431 Neumann, K.-H. 8813 Neumann, U. 941, 942, 943, 8365 8887

Neuray, G. Neuray, G. 8887 Neururer, H. 1681 Neury, G. 2614 Neustein, S. A. 7035 Neve, R. A. 3955, 3956 Nevins, D. J. 8956

Nevrggodina, L. V. 1965 New, P. B. 443 New Zealand, Levin Horticultural Research Centre 4171, 5074, 5152,

5391

Centre 4171, 5074, 5152
5391
Newbery, R. J. 534
Newcomb, E. H. 4480
Newcombe, F. 3073
Newell, I. M. 5565
Newhall, W. F. 2400
Newsome, W. H. 4218
Newton, H. C. 4403
Ng, E. K. 6426
Ng, P. 5470
Ng, S. K. 864
Ng, T. T. 1417
Ngo Tkhe Z'n 6734
Nguyen Thi Tam 329
Niazi, M. H. K. 3938
Nichiporovich, A. A. 6487
Nichols, L. P. 2929, 5476
Nichols, M. A. 3649
Nichols, R. 7852
Nicholson, J. F. 5102
Nickell, L. G. 2476, 7255, 8249, 9261
Nickelson, R. R. 3492

Nickelson, R. R. Nickerson, G. B. 7996, 7998

Nicola, M. G. de 6994 Nicola, M. G. de 6994 Nicolai, J. 4232 Nicolii, C. 1806, 1851 Nicotina, M. 888, 2097 Nicotra, A. 1814, 1815, 3509 Nicotra, F. P. 2597 Nielsen, H. S. 3899

Nielsen, H. S. 3899 Niemann, E. 5599 Nieminen, M. 1193 Nierenberg, L. 4681 Nieto H., J. 6340, 6729 Nieuwdorp, P. J. 310 Nieuwhof, B. J. 4377 Nieuwhof, M. 8744 Nieves, M. 8459 Niezborala, B. 946 Nigam, P. M. 330 Nigam, S. K. 9017 Nigeria, Cocoa Research

Nigeria, Cocoa Research Institute 4035

Nigeria, Institute for Oil Palm Research 9181

Research 9181
Nigh, E. L., Jr. 4002, 4615
Nijensohn, L. 7565
Nijiar, G. S. 796, 4008, 7422
Nijsse, F. 7461, 8405
Nijsse, L. 8505, 8506
Nikaido, T. 3068
Nikishin, K. G. 7346
Nikitina, K. V. 8677
Nikolaev, V. S. 3429
Nikolaeva, L. A. 2333
Nikolaeva, S. I. 1732
Nikolenko, O. İ. 5874
Nikolić, B. 7317

Nīkolenko, O. I. 587 Nīkolić, B. 7317 Nikolić, M. 6545 Nikolov, B. A. 5242 Nikolov, I. 7815 Nikolova, V. 7084 Nikolova, V. 7084 Nikov, M. 6734 · Nikul'shin, V. P. 6025, 6026

Nikul'shin, V. P. 6025, Niller, E. 4405 Nilov, G. I. 3368, 4268 Nilova, V. P. 1805 Nilsson, E. B. 4924 Nilsson, G. 6966 Nilsson, I. 3681 Nilsson, K. 3876 Nilsson, R. 3876

Nilsson, K. 3876
Nilsson, K. 3876
Nilsson, K. 3876
Nimmo, R. G. 2479
Nir, I. 7150
Niranjan, G. S. 9029
Nirwan, R. S. 3228
Nishit, S. 3223
Nishite, S. 9031
Nishida, T. 2430
Nishijima, C. 3483
Nishimoto, R. K. 76
Nishimura, G. 8938
Nishinoka, T. 4723
Nishita, H. 2789
Nísio, J. 8810
Nito, N. 3567
Nitranský, Š. 8576
Nitsch, J. P. 3296
Nizhnak, N. 3112
Nižňanská, A. 5757

7629

Nižňanská, A. S Njoku, E. 6151 Noack, E. 7047 Nockrashy, M. El

Nockrashy, M. El 2414 Noculak, A. 9032 Noguchi, T. 4477 Noll, C. J. 4371 Nollendorfs, V. 7683 Noma, Y. 2401, 3145 Nomerov, B. A. 2991, 5478 Nomura, N. S. 6431, 9241 Noodén, L. D. 3751 Noordegraaf, C. V. 6231, 6990 Noort, L. van 705, 2220, 4122, 4608, 7031 Nord. O. 8546

Nord, O. 8546 Nordby, H. E. 1497, 1498, 3156, 8100

Norman, J. C. 2911, 6099, 7642 Norman, S. M. 4806 2911, 4387,

Normand, M. Le 5246 Norris, K. H. 1344, 8877 Norris, R. D. 1701, 1702 Norris, R. D. 1701 Norris, R. F. 5054 North, C. 5427

Northcote, D. H. Northover, J. 7580 Norton, C. 207 Norton, R. A. 539, 5932 Norton, R. L. 463 Norway, International Seed

Testing Association Noskova, E. V. 8382 Nosyrev, V. I. 5536 Noszczyńska, K. 611

Noto, G. 542, 6698 Notton, B. A. 2747 Novac, N. 8474 Novais, R. F. De 227 Novák, F. 2840 Novák, I. 4775, 9038, 9056 Novák, M. 6149

Novák, V. 4730 Novitskaya, E. I. 7769 Novosel'skii, O. 5881 Novosel'skiĭ, O. 5881 Novotný, J. 5511 Novruzov, K. 1185 Nowicka, B. 8007 Nowosielski, O. 7604 Nozzolillo, C. 8705 Nuamah, G. E. A. 8135 Nucé de Lamothe, M. de 5615, 6398 Nuckolls, C. E. 8294 Nujten, H. M. C. 1686 Nukhimovskiĭ, E. L. 552 Nunes, M. A. 3194 Nukhimovskii, E. L. 5520 Nunes, M. A. 3194 Nurdin, M. S. 2463, 6422 Nursten, H. E. 757 Nussbaum, J. J. 2314 Nutman, F. J. 1577, 1578 Nuttall, V. W. 158 Nuyten, H. 4419, 8505, 8506, 8512 Nye, P. H. 5308, 5309 Nyéki, J. 5790 Nyland, G. 2641 Nyvall, R. F. 6862, 7656 O Ríordáin, F. 2904 Oakes, A. J. 6194 O'Riordáin, F. 2904
Oakes, A. J. 6194
Oakes, G. L. 8765
Oatman, E. R. 5737
O'Bannon, J. H. 3100, 4002
Oberhauf, G. 1812
Oberbacher, M. F. 2409
Oberhofer, H. 464, 1751, 8391
Oberle, G. D. 7507
Oblak, M. 7495
O'Brien, F. 7705
Obukhov, R. E. 6617
Obukhov, A. I. 3120
O'Callaghan, T. F. 6698
Ochs, J. 3911
Ochs, R. 841
Ockendon, D. J. 152
Ockerse, R. 1237 Ockerse, R. 1237 Oda, M. K. 122 Odakhovskiř, E. A. 110 O'Daniel, W. 7480 Odell, D. K. 7935 Odintsova, O. V. 3280 Odland, D. 3670 Odumanova-Dunaeva, G. A. 7806 Oele, J. 2586, 7351 Oettingen, S. von 5354 Oflas, S. 9067 Ogaki, C. 3107, 3111, 3135, Ogaki, C. 3107, 3111, 3135, 3149
Ogan, A. U. 3084
Ogareva, N. L. 4957
Ogašanović, D. 2660, 6661, 7479
Ogata, G. 2126, 6912
Ogata, K. 4543, 5821, 6047, 6048, 6872, 8758, 8800
Ogata, R. 7139, 9088
Ogawa, J. M. 2632, 5022
Ogawa, T. 2782, 5288, 7744
Ogle, W. L. 1220, 6812
Ogly, M. R. M. 2635
Ognyanov, I. V. 5496
Ogoshi, A. 7654
Ogura, N. 5366
Oh, B. L. 2147, 2148
Oh, S. D. 533, 1059
Ohashi, H. 6298
Ohata, T. 2430
Ohgushi, M. 2651
Ohira, K. 5933
Ohkawa, K. 2949
Ohkawa, M. 6645, 7458
Ohno, M. 2651
Oho, N. 3318, 7448 3149 Ohkawa, M. 6645, 7458 Ohno, M. 2651 Oho, N. 3318, 7448 Ohyama, K. 4590 Oitto, W. A. 5786, 6637 Okada, F. 3290 Okagami, N. 730, 4649 Okamoto, T. 7410, 7411, 7412 Okawa, K. 2949 O'Kennedy, N. 6601, 6602 Okhova, E. P. 5350 Oknina, E. Z. 6575 Okolelova, A. P. 44 Oku, H. I. 5577 Okubo, M. 2136 Okuse, I. 7404 Olangiu, M. 1689, 8478 Oldenburg, R. 1980, 6138 O'Leary, J. W. 2879, 3715, 5244
Olech, K. 5985
Oleřník, V. P. 7673
Oleshko, V. D. 7339
Olien, C. R. 5019
Olifirenko, A. S. 3429
Oliveira, A. R. 4059
Oliveira, D. A. 394, 3200, 5814, 7192
Oliveira, G. D. de 1983, 2238, 2896, 4381, 5890, 5911, 7760
Ollagnier, M. 841 5244 Ollagnier, M. 841 Ollis, W. D. 6463 Olmo, H. P. 3356, 4156, 5670, 5869 Olmos, F. S. Olney, C. E. 8419 Olney, V. W. 9236 Olney, C. E. 8419
Olney, V. W. 9236
Olofsson, B. 6229
Olojola, A. 3198
O'Loughlin, J. B. 8312
Olson, K. V. 1414
Olsson, K. A. 6628
Olthof, T. H. A. 2761
Omelyuta, V. P. 2662
Omer, M. E. H. 160
Omori, M. 8637
Omotoso, T. I. 3198
Ondieki, J. J. 430
Ondřej, M. 8708
Ondzík, J. 5135, 5136
Ono, S. 6260, 8064, 8067
Onsager, J. A. 4427
Onsem, J. G. Van 4673, 6167
Oo, H. T. 214
Ooi, S. C. 1602, 9184
Oosten, A. A. van 1052
Oosten, A. A. van 5801
Oosten, H. J. van 91
Oosten, H. J. van 4983 Oosten, H. J. van 91
Oosten, H. J. van 4983
Opatrná, M. 2908
Opitz von Boberfeld, W. 3883,
8912, 8916
Opoku, A. A. 5558
Oprea, D. D. 7566
Opsteeg, L. M. 1353, 2165
Ordish, G. 574
Ördögh, G. 6875
Orebamjo, T. O. 6151
Orellana Segovia, M. de 8024
Oren Y. 3999
Orfila, E. N. 4755
Orion, D. 3367, 8785
Ormrod, D. P. 1322, 2068,
2788, 2813, 4623, 8749
Orsenigo, J. R. 5894
Orsi, F. 4061
Ortega, M. de 3174
Ortega Obregón, C. A. 5794 Oosten, H. J. van 4983 3883 Ortega, M. de 31/4
Ortega Obregón, C. A. 5794
Ortega Y., S. 7699, 7700
Ortiz, J. 3174
Orton, E. R., Jr. 7037
Ortuño, A. 2639, 3114, 6479,
6631 Os, F. H. L. van 3033 Osanai, T. 7410, 7411, 7412 Osawa, T. 1952, 2309, 5893 Osborne, D. J. 2035, 3296, 3718 3718 Osgood, E. A. 6689 Osgood, R. V. 4885, 4886, 6430 Oshkaya, V. P. 6853 Osipov, A. V. 6726 Osipov, F. S. 1101 Osler, R. 5853 Osmelak, M. 8774 Osmond C. R. 4674 Osmeiak, M. 8//4 Osmond, C. B. 4674 Osodo, K. 6365 Osores, V. M. 5655 Ossani, V. 4248 Ostanina, L. K. 8337 Østerbye, U. 5462 Ostreĭko, S. A. 1858 8337

O'Sullivan, M. 1145 Oswalt, T. W. 9094 Oszkinis, W. 2199 Ota, A. K. 4099, 5653 Ota, S. 6815 Otani, K. 8919
Ottenwaelter, M.-M. 8536
Otto, B. E. 5335
Otto, G. 467, 4202, 6561, 6562
Otto, H. 8436
Ottolini, P. L. 5295, 5306
Ouda, N. A. 5243
Ourecky, D. K. 7526
Ournac, A. 5146
Overcash, J. P. 5806
Overman, A. J. 4570, 6144, 6975, 6977
Overman, J. L. 2001
Ovsyannikov, A. S. 2678, 2681, 5053
Ovsyannikova, R. S. 2681 Otani, K. 8919 Ovsyannikova, R. S. Owais, M. H. A. 2231 Owolabi, C. A. 5613 Owusu-Domfeh, K. 5614 Owusu, G. K. 385 Owusu, G. K. 385 Oxley, T. A. 7035 Oya, V. 2025 Oyama, N. 1780 Øydvin, J. 3524, 4316, 4328, Oyebade, I. T. 837, 7183 Oyekan, P. O. 211, 1231 Ozasa, M. 4906 Ozbun, J. L. 188, 6800 Ozdoev, B. A. 1251 Ozdoev, B. A. 1251
Ozdek, B. 8528
Ozolina, I. A. 21
Paardekooper, E. C. 8187,
9208, 9217
Paauw, F. van der 2810
Pablo, I. S. 1595
Pachaly, P. 7104
Pachuliya, K. F. 1483
Pack, D. E. 6758
Pack, D. E. 6758
Pack, M. R. 6932
Paclt, J. 8425
Pacold, I. 2819, 3742
Pacques, M. 6698
Padda, D. S. 233, 3690, 6045,
7666, 7765, 8675
Padhy, S. N. 6300
Padley, F. B. 3090
Padmanabhan, D. 845, 6429 Padmanabhan, D. 845, 6429 Padova, R. 3771 Padovani, N. 5291 Paetzholdt, M. 1006 Paetzold, D. 1765, 7392, 8380 Page, A. L. 440 Paglietta, R. 1126, 1895, 5024, Pagnetta, R. 1126, 1895, 1805
Pagnoni, U. M. 3064
Pagter, J. A. W. de 4664
Pagter, J. W. A. de 6165
Paik, W. H. 1180
Painter, J. W. 5774
Pais, M. S. S. 8911
Paisley, R. B. 477
Paiz, L. 3174
Pakaln, D. A. 8018
Paknikar, S. K. 3089
Pakrashi, S. C. 349
Pál, G. 5535
Pál, I. 245
Pal, N. 6874
Pal, R. N. 7161, 7162
Pal, S. K. 367, 7971
Palade, L. 2
Palamarchuk, L. D. 3573 5805 Palamarchuk, L. D. 3573 Palamarchuk, L. D. 3573
Palaniswami, A. 4871
Palaniswamy, K. P. 1281
Palát, M. 2758
Palenzona, M. 7435
Paleologou, A. M. 8280
Palevitz, D. 3778
Pálífi, G. 3628
Palička, O. 2511
Paliwal, G. S. 6949, 9178
Paliwal, K. V. 2838, 3773
Pallas, J. E., Jr. 2044, 3724, 6856 6856 Paller, E. C. Jr. 7748 Palma, V., R. 5263

Palmer, J. W. 1710 Palmer-Jones, -. 856 Palmer, R. L. 5572 Pálos, T. 5338 Palti, J. 3763 Paltrinieri, G. 1177, 1242, 6711
Paluch, B. 8774, 8935
Paludan, N. 7054, 7793
Palyanitsa, G. I. 2177
Panait, E. 7373, 8471
Pancaro, L. 5726
Panchenko, V. P. 8648
Panda, K. C. 846, 7232
Pandalai, K. M. 4853
Pande, Y. D. 8082
Pandeliev, S. 2725, 4349
Pandey, H. K. 5624
Pandey, K. K. 2250
Pandey, R. C. 9039
Pandey, R. C. 9039
Pandey, S. N. 2707
Pangborn, R. M. 2615
Paniago, E. 3192
Panina, V. V. 6296
Panine, S. 2640
Panje, R. R. 8198
Pank, F. 326, 2320, 7988
Pank, F. 326, 2320, 7988
Pankajakshan, A. S. 9150
Pan'kova, T. F. 1858
Pannonhalmi, M. 191
Panopoulos, N. J. 1294, 3803, 6095
Pan'shina, T. N. 2116
Pant, D. D. 4402 Paltrinieri, G. 1177, 1242, 6711 Panipound 6095
Pan'shina, T. N. 2116
Pant, D. D. 4402
Pant, U. C. 1449
Pantastico, E. B. 8804
Panteleev, A. A. 5952 Pantastico, E. B. 8804
Panteleev, A. A. 5952
Pantelic, M. 3490, 6555, 6663
Panter, R. A. 9072
Pantos, C. E. 8806
Panza, J. D. 8197, 8206
Panza, J. D. 8197, 8206
Papalini, P. 6901
Papavizas, G. C. 5255
Papendick, R. I. 3316
Papenhagen, A. 7789
Papia, P. M. 6839, 6840
Papo, S. 3583 Papenhagen, A. 7789
Papia, P. M. 6839, 6840
Papo, S. 3583
Papp, E. 7674
Papp, J. 6682
Pappo, R. 5428
Pap'yan, N. M. 1965
Parchomchuk, P. 2633
Pardeshi, N. P. 346
Parekh, L. J. 8094, 8095, 8096
Pares, R. D. 3473, 5038
Parfenova, L. S. 2776, 8659
Parfitt, R. I. 1860, 7368
Paribok, T. A. 6080, 6922 Paribok, T. A. 6080, 6922 Parihar, R. L. 6250 Parijs, R. Van 6867 Parikh, H. S. 166 Parijs, R. Van 6867
Parikh, H. S. 166
Paris, R. 4727
Paris, R. R. 7103, 8102
Park, B. K. 1179
Park, C. J. 779
Park, D. H. 2305
Park, K. E. Y. 6008
Park, N. P. 982, 983, 984, 1034 1035 1256 1034, 1035, 1256
Park, R. B. 1673
Park, S. K. 544, 1308
Park, W. M. 1312, 2149
Park, Y. H. 1312, 2149 Parkash, V. 3977 Parker, J. B. 2178 Parkes, R. R. 8292 Parkhomenko, A. A. 1762 Parkin, J. C. 7194 Parkin, J. C. 7194
Parlapanova, M. 3701
Parliment, T. H. 2429
Parma, A. 6379
Parnata, J. 9212, 9213 Parnata, J. 9212, 9213
Parr, J. F. 9246
Parr, W. J. 5217
Parra H., J. 3195, 5619
Parra, M. 2639, 6479, 6631
Parry, M. S. 8318
Parsons, C. S. 1287
Partridge, I. J. 9116
Partyka, R. E. 2876
Parups, E. V. 2290, 3921

Author Index Parynow, S. 7333 Parynow, S. 7333
Pashkar', S. I. 5744
Passarini, I. 2506
Passecker, F. 1714, 7319
Patáková, D. 3083
Pataragetvit, S. 1546
Patarava, B. D. 3287
Pate J. S. 1673 Pate, J. S. 1673 Patel, J. D. 2912 Patel, K. G. 3937 Patel, R. Z. 6404 Patel, S. I. 8943 Path, J. 4006, 6359 Pathak, M. D. 2501 Pathak, S. P. 3591 Patil, A. V. 1475, 6101 Patil, J. A. 5301 Patil, J. S. 9192 Patil, R. B. 6003 Patil, S. P. 7658 Patil, S. S. 176, 177, 7217 Patil, S. S. 176, 177, 7217
Patil, V. D. 348, 7105
Patnaik, R. 632
Patourel, G. N. J. le 4747
Patrinou, M. A. 9115
Patro, G. K. 1622, 8208, 9240
Pattananik, A. 7755
Pattanashetti, H. V. 567, 2715
Patterson, B. D. 5895, 5896, 6594 6594 6594
Patterson, J. B. E. 3299
Patterson, M. E. 8799
Patton, S. 5380
Patton, T. G. 3829, 6950
Patton, T. G. 3829, 6950
Patton, T. G. 3829, 6950
Patty, G. E. 2327
Paulechová, K. 3528
Paulić, N. 7457
Paulin, A. 3924
Paulin, J.-P. 4277
Paull, R. E. 173
Paulson, K. N. 1968, 3820
Paulson, K. N. 1968, 3820
Paulson, R. E. 3807, 6090
Paulus, A. O. 5221
Paunović, S. A. 2659, 2660, 3435, 3465, 3505, 7479
Pauvert, P. 4425, 6847
Pavgi, M. S. 2319
Pavlenko, V. A. 6262
Pavlenko, V. P. 6673
Pavlov, N. 1104, 2718, 8537
Pavlov, N. 1104, 2718, 8537
Pavlov, P. 2043, 7085
Pavlova, M. A. 528
Pavlova, M. S. 3051
Pavlović, S. D. 9057
Pavlović, S. D. 9057
Pavlovićh, S. D. 9057 Pechenitsyn, V. P. 298, 2960 Pecherskaya, S. N. 908
Pécheur, J. 6777
Peck, N. H. 2745
Pedelski, A. V. 4524
Peel, A. J. 3296
Peer, P. 1911
Peerally, A. 2906, 4109, 9278
Peerbooms, H. 3388, 5813
Pegg, G. F. 1230, 8691
Pegg, K. G. 1214
Peggie, I. D. 6650
Pehrson, J. E. 4001, 5564
Peisakhzon, B. I. 6857
Pejkić, B. 3448, 3506
Pejml, K. 345
Pejović, S. 3457, 6700
Pekárik, Š. 5851
Pelham, J. 2108
Pell, E. J. 6841, 8681 Pecherskaya, S. N. 908

Pelletier, J. 3798, 7618, 7650, 7651, 7680, 7681, 7776, 7817, 7824, 8510
Pellett, H. M. 3925, 7352, 8353
Pellett, N. E. 5485
Pelley, R. H. Le 7282
Pellissier, M. 1210
Pelser, P. du T. 6362
Pelt, J. M. 3949, 3950
Penel, C. 129
Peng, J.-T. 7825
Peng, S. Y. 847, 6435
Pen'kov, L. A. 1996, 8977
Penkov, M. 7467
Pennacchioni, A. 8729
Penner, D. 5445, 5446
Penner, H. 7434
Penney, B. G. 3532 8353 Penner, H. 7434
Penney, B. G. 3532
Penningsfeld, F. 2273, 6166
Pennock, W. 875
Penny, D. 221
Penny, P. 221
Penny, R. W. 6619
Pennypacker, B. W. 4620
Penrose, L. J. 3473, 5038
Penteado, L. A. de C. 5957, 6417 6417
Pepelyankov, G. 4255
Peper, H. 2198
Peplinska, M. 616
Peplow, A. J. 8627
Peracchi, A. L. 8748
Perdomo, A. 5623
Pereira, A. E. 2112
Pereira, A. L. G. 8652
Pereira, C. P. 9137
Pereira, J. L. 3201, 3206, 4058, 6408
Perera, B. P. M. 6464 6417 4058, 6408
Perera, B. P. M. 6464
Perera, K. S. O. 9152
Perera, P. S. S. 4544
Péresse, M. 1388
Peresypkin, V. F. 7730
Perevozova, V. A. 8429
Pérez Antich, E. 9264
Perez, C. 4790
Pérez Escolar, R. 8201
Pérez, J. E. 669
Pérez Pérez, N. R. 7695, 7701
Pérez Z., R. 8626
Pérez Zamora, A. 8132 Perez Z., R. 8026
Pérez Zamora, A. 8132
Peri, C. 1931
Peries, O. S. 5645, 9270
Perkins, H. F. 1821
Perkins, I. 3916, 4392
Perkins, R. M. 1515
Perko, J. 4594
Perlasca, G. 2888
Pernerstorfer, J. 5014
Perret, R. 8971
Perov, N. N. 2728, 5701
Perret, P. 5125, 7560
Perrin, M. E. B. 3354
Perry, C. H. 1747
Perry, D. A. 5274, 5275
Perry, F. B., Jr. 5466
Perry, J. H. 4657
Perry, J. S. 2646
Perry, M. W. 7805
Perry, R. S. 2241, 5423
Perry, S. K. 1213
Persikova, Z. I. 5293
Persley, G. J. 423 Pérez Zamora, A. 8132 Persley, G. J. 423 Person 1153 Persson, S. 3896 Persson, S. P. E. 7840 Perstnev, N. D. 1093 Pertuit, A. J., Jr. 6214 Perumal, R. S. 838 Perumal, R. S. 838
Peschel, R. 1691
Pessala, R. 2738
Pessala, T. 8856
Petenucci, W. 1581
Petermair, J. 464
Peters, C. L. 5780
Peters, D. 6006
Peters, J. 6201
Peters, W. 4285
Peters, W. S. 8500
Peterson, L. E. 3680, 3817
Peterson, R. L. 7867, 8629
Petkov, Ch. 6493

Petkov, G. 1082, 2711 Petkov, M. 171 Petkov, V. 213 Petrenko, N. A. 4638 Petrenko, N. A. 4638
Petrescu, A. 7307, 7426
Petrescu, M. 1689
Petříček, D. 7994
Petříková, K. 2887
Petrlík, Z. 345, 3045
Petrosyan, A. A. 2664, 5070
Petroy, A. 2566, 5035, 5036, 8379
Petrov, A. 4 1830 8379
Petrov, A. A. 1829
Petrov, H. 7630, 8773
Petrov, K. H. 4589
Petrov, K. H. 4589
Petrov, N. N. 681
Petrov, N. P. 5190
Petrov-Spiridonov, A. E. 5979
Petrov, V. P. 1087
Petrová, E. 2953
Petrova, V. 8978
Petrovskaya-Baranova, T. P. 4313
Petrunov, S. 8340 Petrovskaya-Baranova, T. P.
4313
Petrunov, S. 8340
Pettersson, J. 5802
Pettoruti, C. A. 6258
Petzold, H. 729, 832, 1958
Pevná, V. 141
Pew, W. D. 4452
Peyer, E. 2705, 3577
Peyrière, J. 5348
Pfammatter, W. 1778
Pfeiffer, C. L. 8863
Pflüger, R. 128
Phadnis, B. A. 5966
Phadnis, N. A. 756, 1124, 1408, 9146
Phares, R. E. 99
Pharis, R. P. 2928
Pharr, D. M. 8793
Phatak, H. C. 3966
Phatak, K. D. 7757
Phelps, R. H. 2854, 5686, 9092
Philip, T. 7593
Philippines, Sugar Institute Philippines, Sugar Institute 8189 8189
Phillips, D. J. 8868
Phillips, D. O. 4042
Phillips, F. T. 4929
Phillips, H. 5731
Phillips, I. D. J. 5909
Phillips, P. J. 8292
Phillips, P. J. 8292
Phillips, R. L. 3108, 3141, 6339, 8065
Phillipson, I. D. 8961 6339, 8065
Phillipson, J. D. 8961
Philpotts, L. E. 4174
Phinney, B. O. 2825
Phithakpol, B. 82
Phogat, K. P. S. 5626
Piantadosi, C. 4759
Piasecka, H. 3060
Piattelli, M. 5595, 6994
Picco, D. 5295, 5306
Pichl, I. 344
Pichler, P. 464
Pickard, B. G. 3847
Pienaar, W. J. 5812
Pienażek, J. 8407
Pieniazek, J. 6520
Pieniażek, J. 6520
Pieniażek, J. 8400
Pieniazek, S. A. 6520 Premiazek, J. 6520
Pieniazek, J. 8400
Pieniazek, S. A. 6520
Pieniazek, S. A. 7333
Pierandrei, F. 3557, 3593
Pierce, W. H. 1559
Piergentili, D. 6258
Pieringer, A. P. 2400
Pierre, J.-N. 7933
Pieters, E. P. 1527
Pietura, A. 6318
Pike, L. M. 620, 4439
Pilac, L. M. 4527
Pilet, P.-E. 3768
Pilger, D. 8699
Pillai, S. S. 3176
Pillay, N. G. 9153
Pilnik, W. 2609
Pimenov, M. G. 3975
Pimentel, D. 2501
Pimpini, F. 144, 5176

Pinckney, H. R. 2039 Pinder, A. R. 3058 Pinheiro, R. V. R. 1009, 1613 Pinkas, J. 3130, 4066 Pinnock, D. E. 4955 Pinnon, A. 6387 Pinthus, M. J. 4549 Pinto de Torres, A. 5007 Pinto de Torres, A. 5007 Pinto, G. L. 1009 Pinto, M. E. 4889 Pionnat, J.-C. 715 Piperkova, N. 3952 Pipinis, I. A. 6308, 6309 Piranishvili, N. S. 7717 Piras, N. 1116 Pirtskhalaĭshvili, B. I. 3268, 4902 4902 Pirtskhalaĭshvili, Ė. S. 9100 Pirtskhalaĭshvili, S. Kh. 3110, Pirtskhalaishvili, S. Kh. 7268, 9274
Pisanu, G. 4025
Pitblado, R. E. 2875
Pitcher, R. S. 3551
Pivovarov, V. F. 5954
Pizarro, O. C. 7565
Plamenac, M. 4030
Plat, M. 9030
Plate, H.-P. 2236, 788 Plate, H.-P. 2236, 7889 Plate, H. P. 8878 Plaud, G. 1591 Plavcová, O. 2953 Plavsić-Banjac, B. 3188 Plavsić-Banjac, B. 7241 Plekhanova, N. V. 7110 Plessis, J. A. du 1469 Plessis, J. A. du 6330 Plessix, C. J. du 4077, 6421, 7228 Plessix, C. J. du 4011, 0421, 7228

Plimmer, J. R. 723

Płocharski, W. 7493

Plock, H. 62, 63, 65, 490, 495, 991, 992, 1003, 1040, 4229, 5013, 5759, 8423

Ploegman, C. 2257, 5436

Plomacher, H. 5473

Plotnikova, I. V. 920, 4313

Plotnikova, T. S. 4237

Plüghan, A. 8376

Plüghan, A. 8376

Plumier, W. 132

Png, T. C. 6426

Poapst, P. A. 4707

Poddar, S. 8253

Podolich, I. I. 6538

Poe, S. L. 1288, 6694, 6973, 6975, 6976

Pogosyan, K. S. 4342, 5835 6975, 6976 Pogosyan, K. S. 4342, 5835 Pogosyan, S. A. 1894 Poisson, J. 1427, 9050 Poisson, J. 1427, 9050 Pokharkar, R. N. 7658 Pokinbara, V. A. 59 Pokorný, M. 5504 Pol, P. A. Van de 3902 Polách, J. 2845, 6075 Poláčková, D. 7692 Polák, I. 3704, 6149 Polák, K. 2865 Polakovič, F. 6746 Polegaev, V. I. 7664 Polikarpova, F. Ya. 733 Polishchuk, L. R. 4238 Poljakoff-Mayber, A. 21 Poljakoff-Mayber, A. 210 Pollack, B. L. 624 Pollock, B. M. 192, 3646, Pollock, B. M. 192, 36-4372
Polyakov, V. Yu. 8901
Pomier, M. 1558
Pomilio, A. B. 4362
Pommer, G. 7021
Pomohaci, N. 7564
Pompei, C. 1931
Ponce A., M. 1500
Ponchet, J. 269, 716
Ponkratenko, G. A. 75 Ponkratenko, G. A. 7532, 8511 Ponomarchenko, V. B. 110 Ponomarchuk, V. P. 2514 Ponomarenko, V. V. 4175, 1101 5711 7/11 Ponomareva, S. A. 6926, 8778 Ponte, J. J. da 9168 Ponte, N. T. da 8671 Ponzio, A. 5937, 5938

Poole, R. T. 1384, 3897, 7025, 7027, 7028, 7877, 8931 Pooyaiah, B. W. 6843, 6885, 7431 Pop, I. 8474, 8556 rop, 1. 84/4, 8556 Popenoe, J. 8124 Popgeorgiev, G. 4750 Popham, R. A. 7939 Popov, E. 4315 Popov, L. N. 1241 Popov, P. 1423, 2337, 6257, 8003 8003 8003 Popov, T. 1097, 7548 Popova, D. 1264, 3810, 6895 Popova, I. 4168, 4206, 5799 Popova, I. A. 7055 Poppe, J. A. 8824 Populer, C. 6425 Pognáczy, A. 7492 Populer, C. 6425
Porpáczy, A. 7492
Porreye, W. 4232, 4279
Porritt, S. W. 3431
Portas, C. A. M. 1147, 1519
Porter, C. A. 7254
Porter, F. A. E. 5290
Porter, L. A. 1046
Posevitz, V. 3628
Poskuta, J. 5819
Posnette, A. F. 1715, 4205
Pospelova, Yu. S. 6727, 8508
Pospisil, F. 7215
Pospíšilová, J. 4388, 5170, 5930, 6002, 6943
Possingham, J. V. 4394, 6479, 7594, 8573 Possingham, J. V. 4394, 647
7594, 8573
Possner, E. 5392
Posthumus, A. C. 4939
Postiglione, L. 169, 239
Potanina, A. S. 3512
Potapov, N. S. 5823
Potapov, N. S. 5823
Potapov, V. A. 2548, 2560, 2570
Potec I. 2 Potec, I. 2 Potier, P. 770, 771, 1354, 1355, 9030, 9050 Potrykus, I. 6154 Potter, C. A. 909, 1712, 2562 Potter, H. S. 1195, 3698 Potter, J. M. S. 1056, 1070, 1723 1723 Potter, J. W. 2761 Pouget, R. 1107, 7584 Poulsen, E. 2489, 6553 Poulter, C. D. 7966 Poupat, C. 1354, 1355 Poupet, A. 2180 Poux, C. 5146 Poupet, A. 2180
Poux, C. 5146
Povalyaeva, I. A. 4586
Povolný, M. 4265
Powell, I. G. 7236
Powell, I. E. 1779, 6489
Powell, R. D. 8922
Powell, R. G. 4761
Powell, R. H. 7924
Powers, M. J. 8799
Poyser, J. P. 8960
Poyser, K. A. 8960
Pozděna, J. 7910
Pozdova, L. M. 527
Pozler, P. 3362
Prabhakar, V. S. 765
Prabhu, A. S. 7757
Pradhan, G. C. 6093
Pradhan, G. C. 6093
Pradhan, S. K. 1641
Prakasam, P. 1636
Prakash, N. 3086, 3172
Prasad, A. 3218
Prasad, A. 3210
Prasad, M. 240, 1286, 7606, 7785
Prasad, M. 240, 1286, 7606, 7785
Prasad, N. N. 8654 7785
Prasad, N. N. 8654
Prasad, R. 3
Prasad, S. 656, 3077
Prasad, S. K. 852, 2484
Prasad, S. S. 8110 Prasad, S. S. 8110 Prasada Rao, K. K. 7244 Prat, R. 3768 Pratella, G. C. 604, 897, 1507, 6711 Pratt, C. 962, 963, 6728 Prebble, K. F. 4898

Preez, P. Du 409 Preininger, V. 9044 Prescott, B. 6035 Pressey, R. 2883 Preston, A. P. 1726, 8318, 8341, 8342 Pretorius, M. E. 7199 Pretorius, W. J. 3092, 5542, Pretorius, W. J. 3092, 5542, 9070
Preusse, H. 900
Preziosi, P. 7455
Price, R. 7623
Price, R. 1508
Price, W. C. 4798, 5557, 9154
Priest, K. L. 1783
Priestley, C. A. 39
Prieto, J. 9110
Prikhod'ko, N. V. 1239, 6005
Prileszky, G. 8460
Prillinger, F., Jr. 7591
Primukhamedov, I. 9016
Prince, V. E. 4242, 5027, 5034
Prime, V. E. 4242, 5027, 5034
Prioux, G. 4070
Prisco, J. T. 2879, 5244
Pritchard, G. H. 4858
Procopiou, J. 1477
Procter, C. H. 1528, 7631
Proctor, F. J. 664
Proctor, F. J. 664
Proctor, J. T. A. 2557
Proebsting, E. L. Jr. 525
Proebsting, E. L. Jr. 525
Proebsting, E. L. Jr. 525
Proebsting, E. L. Jr. 8432
Prokic-Immel, R. 5685
Prokof'eva, N. G. 3961
Prokopenko, M. G. 8540
Prokopivnyuk, L. M. 5284
Prokudina, V. F. 5210
Pron', A. S. 5700
Pronin, V. A. 6488
Proost, P. 8339
Prosteva, M. I. 7117
Protacio, D. B. 2447
Protsenko, A. E. 2295
Protsenko, R. F. 249, 8794 9070 Protsenko, E. P. 2295 Protsenko, G. D. 4961 Protsko, R. F. 249, 8794 Provvidenti, R. 2817, 7684 Pruitt, W. O. 5354 Prunier, J.-P. 5040 Pruss, A. G. 3498, 4271, 4283 Pruszynski, S. 7093 Pryor, R. L. 1337 Przybyl, D. 8995 Przyzembel, G. 8884 Przybyl, D. 8995
Przyrembel, G. 8884
Pšenák, M. 3078
Pshonova, S. I. 4244
Ptitsyna, N. V. 4238
Puchnin, V. N. 7808
Pudrikova, L. P. 7559
Puech, J.-L. 5064
Puerner, N. J. 157
Pugachev, Yu. N. 2861
Pugh, G. J. F. 8917
Puiu, S. 7566
Pujan, M. M. 1011 Pugh, G. J. F. 8917 Puiu, Ş. 7566 Pujan, M. M. 1011 Pujarniscle, S. 3254 Pulver, R. J. 1225 Pump, G. 6958 Pundrik, K. C. 668 Punja, N. 4121 Punsri, P. 77 Punko, V. B. 5824 Punja, N. 4121
Punsri, P. 77
Pupko, V. B. 5824
Purazrang, H. 4062
Purba, A. Y. L. 9187
Purchase, I. F. H. 7199
Purcifull, D. E. 5912
Puri, H. S. 4731, 5515
Purkayastha, R. P. 7842
Purr, A. 4048
Purseglove, J. W. 1668, 3211
Purves, W. K. 162
Puschmann, R. 1303
Pushkin, A. V. 2061, 8723
Pushkin, A. V. 2061, 8723
Pusharajah, E. 4881, 7226
Pusztai, A. 203, 5239, 7724
Putkaradze, Sh. A. 7270
Putman, E. W. 6479
Putnam, A. R. 628, 2828, 8769 8769 Putsilo, A. I. 4958 Putz, C. 103, 531, 1864 Py, C. 402, 9194

Pyarnik, T. 2025 Pyo, H. K. 1201 Pyrkova, E. M. 2549, 2604 Pyshina, Z. S. 2678, 2679 Pyzhov, V. Kh. 3368 Qadry, J. S. 3085, 4757, 4758 Qédan, S. 3072 Quackenbush, F. W. 286 Quackenbush, F. W. 286 Quacquarelli, A. 4595, 5853 Quadros, A. S. 1561 Quadry, J. S. 2332 Quaglino, A. 1126 Quaglio, M. P. 3780 Quagliotti, L. 127, 4530 Quamme, H. 2587, 7353 Quebedeaux, B. 5968 Queiroz, A. 4060 Queiroz, O. 5687, 7933, 8926 Querfurth, G. 7570 Quevedo, C. 8626 Quiceno H., G. 391 Queretto, C. 8626
Quiceno H., G. 391
Quinlan, L. E. 5428
Qureshi, B. H. 491
Qureshi, B. H. 507
Qvarnström, K. 6229
R., F. 1663
Raabe, R. D. 5428, 7573, 7851
Raafat, A. 1217, 8813
Rabaron, A. 9030
Rabasse, J.-M. 3635
Rabb, R. L. 2501
Rabéchault, H. 1605, 2458, 6412, 6413, 9185
Raber, L. 4998
Rachmilevitz, T. 8009
Racusen, D. 7721
Rácz, J. 7575
Radchenko, N. M. 7983
Radeva, V. 213 Radchenko, N. M. 7983 Radeva, V. 213 Radewald, J. D. 2288, 3014 Radha, K. 6401 Radhakrishnan, V. 1567 Radin, J. W. 3673 Radler, F. 579 Radović, V. 6626 Rădulescu, E. 1689 Radulov, L. 4349, 5844 Radyukina, N. A. 8723 Rae, H. L. 1462 Radulov, L. 4349, 5844
Radyukina, N. A. 8723
Rae, H. L. 1462
Raese, J. T. 3170, 4828
Rafailā, C. 1689
Ragab, F. Y. 630
Raghava, S. P. S. 6173
Raghavan, B. 332, 6247
Raghavan, N. 3240
Ragozzino, A. 888, 1369, 2097
Rahimi, A. 865
Rahman, A. R. 6105
Rahman, F. 9273
Rahman, M. U. 6253
Rahman, M. U. 6253
Rahman, M. U. 6253
Rahović, D. 2619
Rai, J. M. 7115
Rai, K. M. 3476
Raifer, L. 1910, 4344, 8558
Raiko, P. N. 7512
Raikova, L. 8775
Raina, N. S. 3881
Rainbow, A. F. 135
Rainchikova, G. P. 5803
Raininko, K. 7020
Rainova, L. 8594
Rains, D. W. 1673
Raitsyna, G. I. 5344
Raja, M. R. 3938
Rajagopala, R. 5898
Rajagopalan, P. 7762
Rajale, G. B. 3 Rajagopal, R. 5898 Rajagopalan, P. 776 Rajagopalan, P. 7762
Rajale, G. B. 3
Rajan, A. K. 7716
Rajani, V. G. 4892
Rajaratnam, J. A. 1603, 3245, 6411, 7212, 7213
Rajendran, V. 2464
Rajgopalachar, K. R. 7311
Rajpoot, M. S. 4064
Rajput, M. S. 1592, 5629
Raju, D. S. 3225
Raju, K. S. K. 4857, 6403, 8147, 9161
Raju, M. V. S. 7932
Rajzman, A. 2404, 3154, 4018, 4809 4809 Rakhi, M. 4919 Rakić, B. 2520

Rakitska, V. 5361, 6072, 6094 Ram, A. 4845 Ram, C. 4845 Ram, C. S. V. 8272 Ram, H. B. 5606, 8412 Ram, H. Y. M. 3056, 7879
Ram, R. S. 4095, 8223
Rama Rao, B. V. 3225
Rama Rao, M. R. 8213
Rama Rao, V. 6297
Ramachandran, M. 2477
Ramadasan, A. 1560
Ramakrishnan, C. V. 8094
Ramakrishnan, G. 8880
Ramakrishnan, K. 159, 1189, 2846, 6818, 7766, 7767, 9249 Ram, H. Y. M. 3056, 7879 9249 9249 Ramakrishnan, S. 3974 Ramakrishnan, V. 300, 725 Ramallo, N. E. V. de 7122 Raman, N. V. 3150, 9106 Ramana Rao, P. V. 8213 Ramanujam, S. 8987 Ramaswamy, A. S. 808 Ramaswamy, S. 8761 Ramiah, M. 6887 Ramiah, M. 6887 Ramina, A. 71, 499 Ramírez de Vallejo, A. Ramírez de Vallejo, A. 4252 Ramírez Silva, F. J. 5658 Ramírez Soto, R. 4764 Ramming, D. W. 90 Ramos, D. E. 524 Ramos, E. B. 820 Ramos, F. M. 417, 428, 6432, 6433 Ramos, F. M. 417, 428, 6432, 6433
Ramos, G. 5206
Ramu, P. M. 6397, 6399
Ramzan, M. 9174
Rana, O. S. 859, 4820
Ranadive, A. S. 1031, 7463
Rancheva, Ts. 5379, 8831
Randhawa, G. S. 2512, 4819, 6295, 6297, 7204, 7216
Randhawa, K. S. 165, 5650, 7075, 7982, 8663, 8664
Randhawa, N. S. 7138, 9087
Randhawa, S. S. 8321
Rangan, T. S. 794
Rangananthan, V. 1630, 8271
Rangaswami, S. 4753
Ranieri, M. de . 3592
Rankov, V. 237, 8776
Ranković, M. 6683
Rantcheva, Tz. 8831 Ranković, M. 6683 Rantcheva, Tz. 8831 Rao, B. B. R. 3210 Rao, B. G. V. N. 6256 Rao, B. S. 844, 8183, 9214 Rao, B. V. R. 3225 Rao, C. K. 6 Rao, C. V. N. 4781 Rao, G. N. 8213, 8275 Rao, K. H. 808 Rao K. K. P. 7244 Rao, K. H. 808
Rao, K. K. P. 7244
Rao, K. R. A. 9163
Rao, M. R. 8213
Rao, N. S. P. 7119
Rao, P. H. 8213
Rao, P. S. 3038, 6256, 7086, 7871
Rao, P. V. N. 8213
Rao, P. V. R. 8213
Rao, R. V. K. 4666, 9062
Rao, S. D. T. 8048
Rao, S. N. 839 Rao, R. V. K. 4666, 9062
Rao, S. D. T. 8048
Rao, S. N. 839
Rao, T. R. 9175
Rao, T. S. 5317
Rao, V. G. 6993, 8966
Rao, V. J. M. 7750
Rao, V. N. M. 1281, 4045, 8569
Rao, V. R. 2849, 6297
Rao, W. K. 1572
Rao, W. K. M. 398
Raouf, M. 5633
Rapava, L. P. 7662
Raparri, T. R. 3825
Rapoport, H. 6307
Rapp, L. 7796
Rapparini, G. 5292, 5734
Rasi Caldogno, F. 8727, 87 Rasi Caldogno, F. 8727, 8728, Rašić, P. 6544

Author Index Rasing, J. 1716, 4953 Raski, D. J. 5132, 5133, 7573, 8534 Raskin, R. S. 6929 Rasmussen, C. R. 7833 Rasmussen, E. 1364 Rasmussen, G. K. 2405, 8085 Rasmussen, H. P. •316, 6885, Rasmussen, H. P. 316, 6885
7431
Rasmussen, K. E. 3024
Rasmussen, S. 3024
Rasmussen, S. 3024
Rasmy, A. H. 29, 72, 366
Rasoanaivo, P. 770
Rassis, A. 5548
Rassomakhina, N. G. 2002
Rast, A. T. B. 6082
Rast, D. 8827, 8828
Rastogi, K. B. 7663
Rastogi, R. P. 2336, 8008
Rasulev, U. U. 1183
Ratana, G. 8187
Rath, C. R. 4125
Rath, G. C. 1274
Rath, C. R. 4125
Rath, G. C. 1274
Rath, N. 6698
Rathore, D. S. 3221
Ratskevich, S. K. 6893
Rattink, H. 7903
Rauch, F. D. 708
Raulston, J. C. 6144, 6977, 7009, 8852, 8860
Rauser, W. E. 7704
Raveax, L. 4061
Ravel, P. 8127
Ravelli, V. 2781, 5373
Raven, C. W. 3752, 4505
Ravindranath, B. 526
Ravisé, A. 3788
Rawlins, W. A. 1255
Ray, L. P. K. 1452
Ray, P. M. 7736, 7737
Raychaudhuri, S. P. 889, 3316, 7086, 8058
Rayment, A. F. 3532 7431 Ray, F. M. 736, 7736, Raychaudhuri, S. P. 889, 3316, 7086, 8058
Rayment, A. F. 3532
Raymundo, L. C. 5365
Raza, S. H. 7749
Razeto M., B. 3471
Read, P. 3917
Read, P. E. 713, 6073
Rebelo, M. C. 9172
Rebois, R. V. 7771
Recalde, L. 6693
Reckin, J. 6306
Reckrühm, I. 936
Redd, F. 7100
Rédai, I. 6776
Reddy, B. R. 8048
Reddy, D. N. R. N. 5489, 6252
Reddy, M. N. 8718 6252 Reddy, M. N. 8718 Reddy, P. J. 3210 Reddy, S. M. 1526, 4869 Reddy, V. S. 7244 Reed, D. K. 5565 Reeder, W. F. 1464, 4873, 8101 Reddill A 873 Reeder, W. F. 1404, 4873, 8101
Reedijk, A. 87
Rees, A. F. 2898
Rees, A. R. 1365, 3296, 3872, 3875, 5431, 6187, 7011, 8882, 8906
Rees, T. ap 694, 5964, 7741
Reese, R. L. 3115
Reeves, S. R., Jr. 2179, 5448
Refatti, E. 1114
Regazzi, D. 1847, 5063
Rege, D. V. 8761
Rehfeld, D. W. 1959
Rehkugler, G. E. 54
Reich, W. 6476
Reichel, M. 900, 932, 7403
Reid, J. S. G. 3053
Reineccius, G. A. 2446
Reinert, R. A. 5178
Reinhard, E. 9051
Reinhard, E. 9051
Reinhard, E. 9051
Reinhard, S. 172 Reinherz, D. 3993 Reis, A. 8844 Reis, M. S. 172 Reisch, J. 4775, 9038, 9056 Rejman, A. 7333 Rejman, S. 8371 Rekvava, Kh. S. 3099 Remaudière, G. 1022 Remizova, G. K. 4384

Rémy, P. 2158 Renard, J.-L. 8164 Renard, W. 6698 Renaud, C., J. 8690
Rendell, J. 6654, 6698
Renedo, J. 1453
Renfrow, A. 305
Rensburg, H. J. van 4469
Rensenbrink, W. J. 7926
Renvall, S. 4431, 4438
Renzoni, G. C. 279
Reppo, E. 293
Rest, J. A. 4736
Retief, W. L. 5192
Retig, N. 2777
Retina, T. A. 8964
Rettig N. 2816
Retuerma, M. L. 4798
Reuff, B. 865 Renaud, C., J. 8690 Reutf. B. 865
Reuther, W. 6328, 6334, 8099
Reuveni, O. 809
Reuveni, O. 809
Reuveni, R. 8781
Revilla, A. P. de 8788
Revyakina, N. T. 7338
Rey, P. 6285, 7985, 7991
Reyes, A. A. 8621
Reyes, A. A. 8621
Reyes, E. H. 8132, 9140
Reynolds, B. D. 537
Reynolds, H. W. 4002
Reynolds, H. W. 4002
Reynolds, H. W. 4002
Reynolds, S. G. 5611
Rezáč, A. 6159
Rezníček, V. 2523, 2893, 5323
Reznickova, S. A. 2948
Reznikova, S. A. 2948
Reznikova, S. A. 2948
Reznikova, S. A. 297
Rheaume, B. 8768
Rhee, I. D. 1995
Rhoades, H. L. 5927
Rhode, R. A. 3316
Rhodes, M. J. C. 5934
Rhodesia, Ministry of
Agriculture 3308
Rhodesia, Secretary for
Agriculture 4149, 4364, 4829
Ri, C. Y. 9049
Ribaillier, D. 9216
Ribeiro, F. A. 390
Ribeiro, R. de L. D. 4528, 4533, 5328
Ricard, J. 6659
Ricardo, C. P. P. 694
Ricardo Vilanova, J. 7718
Ricaud, R. 8205
Ricardi, S. 6379
Ricci, P. 1010
Rice, E. R. 8195
Rice, R. E. 81, 1837
Richardson, F. T. 7338
Richardson, M. 255
Ri Richardson, L. 1. 7/31 Richardson, M. 255 Richens, K. 6338 Richmond, A. E. 1978 Richter, E. 7810 Richter, G. 709 Richter, M. 3440 Richter, R. 5272, 5273 Rickard, P. C. 5377 Ricketts, M. E. 6779 Ridings, W. H. 2974 Riekels, J. W. 7773 Riepma, P. 7621, 7643 Ries, S. K. 2130 Riess, C. M. 9258 Riesselman, J. H. 722 Rife, C. F. 4335 Riggenbach, W. 1766 Rigor, E. C. 4779 Rijven, A. H. G. C. 3976, 4776, 8044

Rikhter, A. A. 8332 Ril', T. R. 4716 Rimikhanov, A. A. 8783 Ríos C., D. 8052 Rios C., D. 8052
Ríos-Castaño, D. 1461
Rios, V. M. 2103
Ripaldi, C. P. 1209
Rippon, L. E. 829
Rišňovská, H. 3926
Ristanović, M. 6657
Ristevski, B. 3489, 4270, 5714, 6629, 7447
Ritchie, E. 335
Ritter, C. M. 3392
Ritter, M. 4931
Rivadeneyra, V. H. 731
Rivalta, L. 3485
Rivas, D. 5302
Rivera Brenes, A. 5658 Rivalta, L. 3485
Rivas, D. 5302
Rivera Brenes, A. 5658
Rivera-Ortiz, J. M. 1587
Rivero U., W. 4563
River, L. 7097
Rivlin, A. 3868
Rizaev, R. M. 1718
Rizk, A. M. 3023
Rizvi, S. A. I. 1426
Rizzotto, N. 4207, 4343, 5341
Rjabtschun, O. P. 7544
Roach, F. A. 3369
Robbins, M. L. 3680, 3817
Robbins, R. T. 645
Robbins, W. J. 8929
Robbs, C. F. 915, 4528, 4533, 8748
Robert, Y. 3635
Roberts, D. A. 1559
Roberts, F. M. 1577, 1578, 2806 Roberts, G. R. 6468, 6469 Roberts, H. A. 1164, 6779, 6879
Roberts, R. 6814
Roberts, S. 3702
Robertson, J. S. 1138
Robertson, W. R. 7164
Robinson, C. 5427, 5428
Robinson, D. 6601, 6602
Robinson, D. E. 4997
Robinson, F. E. 116
Robinson, J. E. 229, 1077
Robinson, R. W. 634, 635, 5967 6879 5967 5967 Robinson, W. B. 5108, 5233 Robison, W. H. 8245 Robitaille, H. 4220 Rocha, H. M. 3183, 4845, 4846
Rochecouste, E. 8121
Rochelle, L. A. 6393
Rochow, W. F. 3316
Rodaway, S. J. 2073
Roddick, J. G. 2129
Rode, H. 1765, 7383
Rodella, A. A. 3260, 7287
Rodionov, V. S. 6092
Rodney, D. R. 4002
Rodney, R. 8063
Rodrigues, C. J. 1580
Rodriguez, E. 3035
Rodriguez, E. 6286
Rodriguez, E. 6286
Rodriguez Enriquez, M.-J. 4846 Rodriguez Enriquez, M.-J. 8600 Rodriguez Fuentes, M. E. 5605 5605
Rodriguez, H. 406, 3939
Rodriguez, J. G. 1291
Rodriguez Luis, F. 8000
Rodriguez, R. C. 6218
Rodriguez V., A. E. 4257
Roe, B. 9104
Roemer, K. 2608, 7406
Roest, S. 9012
Rogers, B. L. 2644
Rogers, C. E. 5269
Rogers, E. 3470, 4977, 8457
Rogers, I. S. 3301
Rogers, P. F. 8220
Rogege, H. P. J. R. 1175 Roggen, H. P. J. R. 1175 Rogler, C. E. 6217

Rognon, F. 1557, 5615, 6398 Roh, S. M. 3870, 4658 Rohde, J. 2203 Rohrbach, H. 1379 Rohrbach, K. G. 375, 5780 Roistacher, C. N. 794, 6328, 6345, 7141 6345, 7141 Rojas M., L. A. 8951 Røkholt, P. O. 4133, 5387 Roland, J.-C. 3768 Rolland 1153 Rolli 2163 Rollin, P. 2766, 3861, 5208, 5687 Rolz, C. 3174 Rom, R. C. 1012, 3510, 4256, 8462 8462 Romagnolo, M. 3780 Romanenko, N. 8533 Romanenko, N. 8533 Romano, S. 8424 Romanov, N. P. 3429 Romanova, G. T. 5047 Romanowski, R. R. 4886 Romanshchak, S. P. 2542 Romeiko, I. N. 1229 Romero, J. 200 Romney, D. H. 1568, 4054, 4854 4854 Romney, E. M. 6479 Roncador, I. 5126, 6730 Ronchi, V. N. 139 Rondina, R. V. D. 2348, 3964, 9043 Rondón G., A. J. 9071 Rongen, P. 2146 Roodich, Y. 3692 Roorda van Eysinga, J. P. N. L. 1143, 5345 Roos, E. E. 192, 639 Rooy, M. De 2259 Rosa, A. G. dela 8078 Rosati, P. 2694, 2695, 3542, 3547 9043 3547 3547 Rosazza, J. 2345 Rosazza, R. 3572 Rosciglione, B. 815 Roselli, G. 7290 Rosenberg, D. 3645 Rosenblum, J. 3784 Rosenstiel, R. G. 1076 Rosenthal, R. N. 8863 Ross, E. 2435 Ross, J. D. 8448 Ross, J. P. 4472 Ross, R. G. 53 Rossi - Compostella, I. 8 Ross, J. P. 4472
Ross, R. G. 53
Rossi-Compostella, I. 8526
Rossi, H. H. 5418
Rossi, N. 5681
Rossier, L. A. 7257
Rossol, R. 7090
Rostron, H. 408, 7256
Rotar', A. I. 5744
Rotem, J. 8781
Roth, G. 415
Roth, I. 4856
Roth, P. L. 98
Rothbächer, H. 325
Rother, A. 768
Rotov, R. A. 4668, 5440
Rottenburg, W. 2935
Rottink, B. A. 2983
Rouanet, G. 170, 5322
Roughan, J. A. 4389
Roughan, J. A. 4389
Roughan, P. G. 2072
Rourk, J. P. 1397
Rousseau, G. G. 8417
Roussel, C. 8562
Roussel, C. 8562
Roussel, P. 6021
Rousselet, R. 8102
Rout, B. K. 1274
Routchenko, W. 6479
Roux, F. Le 2682
Roux, F. Le 2682
Roux, S. Le 4340 Routchenko, W. 6479 Roux, F. Le 2682 Roux, M. S. Le 4340 Rouze-Jouan, J. 3635 Rovira, A. D. 6479 Row, L. R. 7119 Rowan, K. S. 6944 Rowe, H. F. 7623 Roy, A. K. 8782 Roy, A. R. 7173 Roy, B. N. 1499 Roy, D. N. 1452

922 Roy, M. K. 2601 Roychoudhury, N. 3226 Royle, D. J. 5510, 6277 Rozanski, A. 4763 Rozov, N. F. 2901, 6802, 8617 Rózsa, Z. 9056 Rozsnyai, Z. 7423 Rozumna, O. D. 5815 Ruban, N. G. 1893 Rubatzky, V. E. 3636 Rubin, B. 4468, 5888 Rubin, B. A. 5935 Rov. M. K. 2601 Rubin, B. 4468, 3888 Rubin, B. A. 5935 Rubtsov, N. I. 862 Rubtsov, V. V. 3391 Rubtsova, N. I. 934 Rücker, G. 769 Rudenko, K. N. 5699 Rudenko, N. M. 6822 Rudić, M. 3385, 3386, 6545, 6626 6626 Rudich, J. 1199, 2777, 3688, Rudnicki, R. 3380 Rudolph, K. 168, 4928, 5248 Rudolph, K. 168, 492
Rudolph, M. J. 7029
Rüegg, E. F. 5349
Ruelke, O. C. 4088
Rueveni, O. 8106
Rufer, R. 1174
Ruffaldi, G. B. 4823
Ruffner, F. 2055
Ruggeri, D. 6499
Ruggieri, G. 5559
Rug, D. 45
Ruinard, J. 2471
Ruissen, J. 6596
Ruiter, D. de 8815
Ruiz de Montalvo, M. Ruisch, J. 036
Ruiter, D. de 8815
Ruíz de Montalvo, M. C. 1587
Ruiz, S. E. 3700
Rumania, Centre d'Information
et de Documentation pour
l'Agriculture et la
Sylviculture 8281
Rumi, C. P. 4647
Rumpel, J. 6032, 7604
Rumyantseva, V. I. 5941
Rundans, V. 4236
Rundle, D. L. 2301
Rünger, W. 309, 6200, 7858,
8925
Rungie, J. M. 148, 149
Rungsiyakul, D. 9042
Runkova, L. V. 6987
Rupprecht, H. 2291
Ruscoe, C. N. E. 4121
Rusmini, B. 134
Russ, R. D. 5798
Russell, G. F. 1414, 7979
Russell, G. F. 1414, 7979
Russell, R. S. 3296, 8308
Russo, F. 5549
Russo, M. 4487
Rust, D. J. 4259
Ruswanda 5663, 8273, 8274
Rutger, J. N. 5238
Ruth, J. M. 222
Rutherford, P. P. 7759
Rutland, R. B. 3854, 8865
Rutledge, A. D. 545
Rutten, P. 2640
Ryabov, I. N. 7454
Ryadnova, I. M. 76, 1014, 7444
Ryall, A. L. 5167
Ryan, C. A. 2855, 8790
Ryan, E. W. 2900
Ryan, E. W. 2900
Ryan, G. F. 4702
Ryaskel, V. 5505 Ruíz de Montalvo, M. C. 1587 Ryall, G. F. 4702 Ryass'kiĭ, V. 5031 Rybáček, V. 344 Rybáček, V. 5505 Rybáček, V. 5506 Rybáček, V. 5506 Rybakov, A. A. 1718 Ryban, G. 5135, 5136 Ryden, K. 3844 Rygg, G. L. 1512, 5581 Rygg, T. 4429 Rykalin, F. N. 914 Rylko, M. 230 Rylov, G. P. 5048, 5785 Rylski, I. 2850, 4541, 5326, 5327, 6889 Ryu, K. S. 1446, 2304

Ryugo, K. 2632, 4357, 5707, 5761 Ryzhkov, A. P. 8372 Ryzhova, E. F. 7055 S., C. G. 1621 S., P. C. 854 S., S. K. 3269 Saadany, G. B. El 2396
Saas, P. 2598
Sabah, Department of
Agriculture 8582, 9075,
9135 Sabaratnam, S. 4907 Sabashvili, G. K. 3159 Sabharwal, P. S. 2271 Sabri, N. N. 6301, 6302 Sacalis, J. N. 2296 Sachl, J. 343, 3043, 7089 Sachs, M. 6698, 6708, 8524 Sachs, R. M. 4610, 4685 Sachs, T. 3008, 5972 Sadan, D. 3307 Sadana, G. L. 1488 Sadasivam, R. 3150, 4044, 9106 Sabaratnam, S. Sadivasam, R. 3210 Sadleder, D. 5989 Sadykhov, D. M. 7801 Sadleder, D. 5989
Sadykhov, D. M. 7801
Saeed, A. 2455
Saelens, W. 3641
Saettler, A. W. 1213, 2021
Safrai, B. 3923
Safran, B. 8572
Safran, H. 3998, 6333
Saga, K. 2080, 8752
Sagar, G. R. 214, 6011
Sagawa, Y. 712, 1380
Sági, F. 6662, 6678, 7510
Saha, A. K. 433, 3210, 9176
Saharan, G. S. 7706
Saharan, G. S. 7706
Sahashi, Y. 8637
Sahayh, B. N. 9224
Sahoo, A. C. 8739
Sahulka, J. 4509, 6010, 7732
Said, H. M. 491
Said, M. 7344
Saidak, W. J. 1819, 7452
Saidi, M. T. El 2027
Saifur-Rahman 1402
Saifur-Rahman 1402
Saifur-Rahman 1402
Saifur-Rahman 3055
Saikia, B. K. 7974
Saimbhi, M. S. 233, 7765, 8666
Saini, N. K. 7251 8666 Saini, N. K. 7251 Saini, S. S. 6438, 7663, 9178 St. Lucia, Ministry of Agriculture, Research Agriculture, Research Division 8056, 8577 Saito, S. 2744 Saito, T. 2132, 4393, 6931 Saivaraj, K. 853 Sakaguchi, S. 7140 Sakai, A. 4342, 5835 Sakai, R. 7654 Sakai, S. 4112 Sakai, W. S. 176 Sakaikara M. 8071 Sakai, S. 4112
Sakai, W. S. 176
Sakaikbara, M. 8071
Sakariah, K. K. 8094, 8095
Säkö, J. 2738, 8484
Saksena, S. B. 788
Sakshaug, K. 2489
Sakurai, H. 4475
Sakurai, N. 8599
Salama, H. S. 399, 799, 811, 2397, 3134, 9179, 9180
Salamini, F. 8704
Salardini, A. A. 7135
Salas, G. 3775
Salazar C., R. 1461, 8052
Salazar, J. A. 308
Saleh, M. 3081, 9037, 9058
Saleh, M. 3081, 9037, 9058
Saleh, M. R. I. 778
Salem, S. A. 494, 1122
Salerno, M. 815, 4802
Salgado, M. L. M. 8140
Salih, H. S. A. 5346
Salleno, S. 2645, 7436
Salminen, S. 7176
Salo, M. -L. 60
Salo, M.-L. 101

Salter, P. J. 1163, 3667, 3669 Salud, E. H. 4779 Salunkhe, D. K. 1298, 2012, Sathiamma, B. 1562, 8142, 9156, 9157, 9159 Sathiamoorthy, A. S. 853 2070, 4485, 5995, 6104, 7326, 8803 7326, 8803 Samajpati, S. 4781 Samananda, N. 4623 Samarawira, I. 327, 8832 Sambarina, L. N. 649 Sambamurthy, K. 7078 Samish, R. M. 1925, 6479 Sammes, P. G. 8960 Sammes, F. G. 8900 Samoĭlenko, B. S. 118 Samokhvalov, G. I. 7738 Samol, H. H. 8244, 9259 Samorodova-Bianki, G. B. 4228, 7417 4228, 7417 Sampath Kumar, P. S. 3069 Samperi, A. M. 7303 Samson, J. A. 6119 Samsonov, A. M. 6747 Samuels, G. 2474, 7218, 8200, Sanchez, M. 3174
Sanchez Nieva, F. 1538
Sánchez Potes, A. 389, 3189
Sánchez Puente, L. de la 6701, Sanchez Potes, A. 389, 3185
Sánchez Potes, A. 389, 3185
Sánchez Puente, L. de la 67
6702, 6703
Sandanam, S. 5359
Sanderson, G. W. 1665
Sanderson, K. C. 4718
Sanderson, S. 2942
Sandho, S. S. 7425
Sandhu, B. S. 4008
Sandhu, J. S. 426, 7247
Sandhu, K. S. 5629
Sandhu, K. S. 5629
Sandhu, M. S. 1993, 6828
Sandhu, S. S. 4095, 8223
Sandina, I. B. 5533, 6313
Sandved, G. 4650, 5420
Sandved, M. 2916
Sandwell, I. 3822
Sang, C. K. 5189
Saniewski, M. 8400
Sanikidze, A. B. 8115
Sanikidze, V. I. 3265
Sankaranarayanan, P. 1618
Sankhla, D. 3647
Sanoh, H. 138
Sansavini, S. 61, 1849
Santamour, F. S., Jr. 7038
Santavý, F. 5517
Santhanam, P. S. 2340
Santhanaraman, T. 5223
Santos, A. C. dos 9172
Santos, M. A. C. dos 5890
Santra, D. K. 3015
Sanwal, G. G. 9134
Sanyal, D. K. 855
Saoji, A. N. 4773
Sapozhnikov, D. I. 7055
Saracco, C. 5107
Sarawak, Department of
Agriculture, Research
Branch 3609, 3933, 4036 Agriculture, Research Branch 3609, 3933, 4036 Sardjono 5663, 8274 Sardzhveladze, G. P. 3159, 3262
Sargent, J. A. 2032, 7632
Sarger, J. 4232
Sarkisova, M. A. 6296
Sarkisova, S. O. 7583
Sarma, A. K. 7173
Sarma, M. N. 7244
Sarma, Y. R. 4096
Sarmeitno, R. 9112
Sarmiento, R. 8112, 9111
Sarruge, J. R. 3197, 3200, 4381
Sarti, D. 1848
Sarwar, M. 336, 8993 3262 Sarti, D. 1848 Sarwar, M. 336, 8993 Sarykulov, O. 7483 Sasaki, S. 1398 Sasaoka, K. 5288, 7744 Sass, B. 2687, 7497 Sass, P. 4198, 6585 Sasser, J. N. 445 Sastry, K. S. 4096 Sastry, K. S. M. 8786 Sastry, K. S. M. 8786 Sastry, S. D. 6995 Satarova, N. A. 2802 Satarova, S. N. 8430

Satinamooriny, A. S. Satish, S. 1451
Sato, K. 6479
Sato, M. 1828, 2750
Sato, N. 2696
Sato, P. T. *8015
Sato, T. 2430
Sato, Y. 1835, 4774
Saturance J. F. 47 Sato, Y. 1835, 4774
Satsyperova, I. F. 4772
Satter, R. L. 6235
Satyabalan, K. 1567
Satyanarayana, G. 1913, 8551
Satyanarayana, Y. 1636
Sauer, K. 7708
Sauer, M. R. 1095
Sauls, J. W. 1827
Saunders, P. F. 3743
Saure, M. 460, 1728, 3378, 8335
Saussay R. 8597 8335
Saussay, R. 8597
Sauthoff, W. 3325
Sautin, V. I. 7512
Savage, E. F. 5027
Savchuk, L. P. 7990
Savel'ev, N. I. 2530
Savin, E. Z. 2544, 4179
Savina, A. A. 3975
Savirskii, Yu. N. 465
Savov, T. 7815
Savamura, K. 7379 Sawanura, K. 7379 Sawayama, S. 3160 Sawhney, N. 7883 Sawhney, S. 7883, 7884 Sawhney, V. K. 1300, 2884, 3816 Sawhney, V. K. 1300, 2884, 3816
Saxena, B. N. 6203
Saxena, H. K. 3121
Saxena, H. K. 3121
Saxena, M. M. S. 7237
Sayanova, V. V. 4486
Sayavedra, G. A. 3804
Sayed, G. E. K. 8259
Saylor, L. C. 5461
Sayyad, S. M. El 3079
Sazena, D. B. 8998
Sazonova, L. V. 4435
Scagliarini, A. 1242
Scaife, M. A. 5183, 8610
Scalopi, E. J. 3757, 5296, 5297
Scaramuzzi, F. 570, 4359, 6376 6376 6376 Scarborough, I. P. 3264 Scarisbrick, D. H. 8676 Scarpellino, R. 4400 Schaap, C. 7621 Schacht, W. 6125 Schade, C. 7321 Schade, J. 7330 Schaefer, H. 5830, 7579 Schaefers, G. A. 1887 Schaer, E. 5760 Schäfer, E. 8910 Schafer, E. 3760
Schäfer, E. 8910
Schäfer, K. 3895
Schalk, A. 5085
Schaller, C. C. 520
Scharlemann, W. 9053
Scharpé, A. 6867
Schätzke, M. 895, 896
Scheer, H. A. T. van der 5009
Scheibe, J. 5180
Scheibe, J. 5180
Schein, R. D. 8689
Scheinmann, F. 9040
Schekel, K. A. 5401
Schenck, N. C. 5219
Schenk, P. C. 5427
Schenk, P. K. 3864
Schenk, W. 5139
Scherzer, J. R. 6369
Scherzer, S. 6479
Schickedanz, F. 2880
Schickluna, J. C. 2490
Schieber, E. 3203
Schieber, E. Lewis, F. H. 3316 Schiechtl, H. M. Schiffani, C. 357 Schiff, P. L., Jr. 2360 Schiffmann-Nadel, M. 358, 369, 1465, 1506, 2377, 3153, 6347, 7152 Schik, K. E. 2945

Author Index Schilcher, H. 3637 Schimanski,, H.-H. 7321 Schimmelpfeng, H. 2693 Schirmer, M. 8510 Schisler, L. C. 5380 Schiva, T. 7892 Schlösser, E. 1541, 2395, 2455, 4833, 5464 Schmalscheidt 8947 Schmaus 2907 Schmelzer, K. 6276, 6781, 7637
Schmid, H. 1724
Schmid, R. 2483
Schmidle, A. 6566
Schmidt, E. 561, 4690, 7050
Schmidt, G. 4612, 8414
Schmidt, R. E. 2264, 5443
Schmidt, S. 7401
Schmitt, A. 1128
Schmitt, L. 865
Schmitt, O. 2075
Schmitt, R. V. 5133, 7573, 8534
Schmitt, K. J. J. 6593 7637 Schmitt, R. V. 5135, 7573, 8534
Schmitz, K. J. J. 6593
Schmutterer, H. 8717
Schneider, E. A. 250, 251
Schneider, E. F. 4703
Schneider, R. 2236
Schneiderer, M. 6124, 6958
Schneiderer, M. 6124, 6958
Schneil, H.-E. 7862, 7888
Schnell, R. 9120
Schoch, P. G. 2095
Schödel, S. 5155
Schoeneweiss, D. F. 6211
Schöffling, H. 5116, 8549
Scholefield, P. B. 6765
Scholten, G. 1338
Schomer, H. 3425
Schönberg, G. 1735, 7359
Schoneveld, J. A. 2764, 3639, 6114 6114 Schönhard, G. 865
Schönhard, G. 865
Schönhard, G. 1218
Schönhard, K. E. 3892
Schoorl, D. 5754
Schopfer, J. F. 1115
Schopfer, P. 5687
Schrauwen, J. A. M. 3851
Schrauwen, J. A. M. 275
Schreiber, R. S. 5022
Schreiber, L. R. 1146
Schreder, W. R. 5022
Schreiber, L. R. 1146
Schroder, J. 5155
Schroder, J. 5155
Schroder, J. 5155
Schroder, G. 294, 3877
Schroder, C. 294, 3877
Schroder, W. T. 2817
Schroder, W. T. 2817
Schroth, M. N. 5787
Schruft, G. 3586, 4350
Schuillag, M. 4054
Schulte, K. E. 769
Schultz, I. 7989
Schultz, I. 7989
Schultz, I. 7989
Schultz, R. 917, 918
Schuster, M. L. 722, 2022, 2023, 7696
Schuhn, W. 2903, 7308
Schuricht, R. 917, 918
Schuster, M. L. 722, 2022, 2023, 7696
Schütte, H. R. 2308
Schwarzenbach, H. 5104
Schwarzenbach, H. 5104
Schwarzenbach, H. 5104
Schwemmer, E. 8298, 8893
Schwarzenbach, H. 5104
Schwemmer, S. 1299
Sciaroni, R. H. 6139, 6146
Scienza, A. 558
Scoott, D. H. 1874, 2670, 4321, 5500.

Scott, K. J. 483, 487, 898, Scott, K. J. 483, 487, 898, 1794, 1797
Scott, M. 2170, 6141
Scott, T. K. 1673
Scuderi, A. 4794
Seager, J. C. R. 746, 1332
Seal, D. T. 7035
Seaman, F. C. 2942
Seamount, D. T. 2408
Seawright, K. W. 8865
Šebánek, J. 3748, 4510
Sebestyén, R. 3628
Seçmen, Ö. 3096
Sedlarska, B. 8537, 8550
Sedov, E. N. 5699
Sedova, Z. A. 5699
Sedykh, N. V. 5278
Seefeld, F. 7988
Seem, R. C. 1211
Seemann, J. 2497
Seemanthani, B. 6810 1794, 1797 Seeman, J. 2497
Seemann, J. 2497
Seemann, J. 2497
Seemannhani, B. 6810
Seeschaaf, K. W. 384
Seetoh, H. C. 6210
Seeyave, J. 2382
Segal, N. 9069
Segal, R. 6314
Sehgal, C. B. 1447
Seidel, H. 1876
Seidel, M. C. 3334
Seidl, V. 3406, 4984
Seifer, H. 9069
Seifert, J. 3330
Seike, K. 6639
Seitz, P. 1945
Seitz, P. 1945
Seitz, P. 1945
Seitz, P. 1945
Self, R. 6783
Self, R. L. 4686
Seligmann, O. 2371 Sell, K. L. 4686 Seligmann, O. 2371 Selimi, A. 3492, 4263 Sell, H. M. 1197, 1198, 2006 Selman, I. W. 5359 Selochnik, N. N. 2959 Selvaraj, Y. 6295, 6297, 8021, 8127 Selvendran, R. R. 3283, 4907, Selvendran, R. R. 3283, 4907, 6462, 6464
Selvendran, S. 3283, 6462
Semakin, V. P. 5699
Semancik, J. S. 363
Semangoen, H. 5621
Semeniuk, P. 317, 2940, 6996, 8877 88 //
Semenov, A. Ya. 955
Semenov, N. I. 5700, 5701
Semenova, G. G. 6589
Semenyuk, G. M. 6552
Semichev, V. N. 4565
Semikhatova, O. A. 2060
Semina, N. P. 2555, 2567, 6532
Semkin V. I. 4513 Semkin, V. I. 4513 Semkin, V. I. 4513 Semkina, L. A. 2998 Semochkina, L. G. 2534 Semrád, S. 2908 Sen, A. 1664 Sen, A. B. 5530 Sen, B. 3316 Sen, D. N. 8657 Sen, P. K. 3219, 3226, 3233, 3235, 3236, 3239 3235, 3236, 3239 Sen, S. K. 2926 Sena-Silva, M. do S. 9168 Senchenko, G. G. 763 Sengalevich, G. 6677, 8784 Senser, F. 7091 Sento, T. 2415 Seow, C. C. 8130 Seow Chee Choon 4837, 8130 Sepasgosarian, H. 1695 Sequeira, I. 4403 Sepasgosarian, H. 1695 Sequeira, L. 4403 Sequeira, O. A. de 5853 Serafimov, S. S. 2533, 4165 Serafini, G. 5126, 6730 Serapión, J. L. 8255 Serebryakova, N. V. 2990, 2993 Sergeev, L. M. 5701 Sergent, G. 6777 Serini, G. 1137 Serpukhovitina, K. A. 5701 Serra, G. 6028, 6175

Seshadri, A. R. 7762 Seshadri, T. R. 346, 353, 526, 758, 766, 3069, 4717, 4765, 8276; 9005, 9047 Seth, M. L. 6050 Setliff, E. C. 8392 Setterfield, G. 5314, 8736 Setterfield, G. 5314, 8736 Seutin, E. 6942 Sevcenco, V. 8478 Sevenet, T. 2365 Sewell, A. P. 7759 Sewell, G. W. F. 3325, 9009 Sexton, O. J. 382 Sexton, R. 5282 Seyffert, W. 285, 6997 Seymour, C. P. 1559, 2269, 3002 3002 3002 Seymour, R. S. 7935 Sfakiotakis, E. M. 1363, 7010 Shabbir, G. 1619 Shabrawy, O. A. El 4495 Shadrina, L. S. 2556 Shafi, M 609, 1176, 2837, 2890 2890 Shafi, M. M. 5914 Shafrir, M. 3986 Shagina, T. V. 3426 Shah, C. S. 2332, 3085, 4757, 4758 4758 Shah, J. J. 2912 Shah, N. C. 7065 Shah, V. J. 8096 Shaikh, N. B. 1634, 8222 Shaikh, Z.-ud-D. 7749, 7761 Shalamberidze, N. Sh. 1759 Shalitin, G. 3583 Shalucha, B. 3850 Shamanaeva, T. N. 5356 Shamy, A. M. El 3049 Shanimov, Kh. I. 48 Shankaranaravana, M. L. 33 Shankaranarayana, M. L. 332, 6247 Shanks, C. H., Jr. 2684 Shanks, J. B. 2280, 7052 Shanmuganathan, N. 5662, 6460 Shanmugavelu, K. G. 4045 Shanmugham, A. 697 Shanmughavelu, K. G. 128 Shanmughavelu, K. G. 1281 Shannon, S. 5967 Shanta, P. 1560, 6402, 9153 Shapovalov, V. I. 2719 Sharaf, A. 4495, 6470 Sharma, A. 266 Sharma, A. B. 3222 Sharma, B. L. 6445 Sharma, B. N. 7972 Sharma, C. B. 8777 Sharma, D. K. 3210 Sharma, D. N. 3243 Sharma, H. C. 8011 Sharma, J. C. 3665 Sharma, K. R. Sharma, N. D. Sharma, O. P. 2849 766 4529, 7274 Sharma, P. L. 7476, 7971 Sharma, P. P. 7663 Sharma, R. A. Sharma, R. C. 7807 1416 Sharma, R. D. 9126 Sharma, R. K. 143, 1011, 5434, 5624, 5977 Sharma, R. L. 7545 7545 Sharma, R. L. 7545 Sharma, S. K. 7251 Sharma, V. K. 4818, 5207 Sharov, R. F. 563 Sharova, N. L. 7327 Sharova, N. L. 7857 Sharp, W. R. 6929 Sharpe, R. H. 1067, 4242, 6527 1152, 4354, 6527
Sharples, D. 2208, 2209
Sharples, G. C. 1484
Sharples, R. O. 7407, 8318
Shatiliv, I. S. 6802
Shatilov, I. S. 2901, 8617
Shatkovskii, T. A. 6573
Shaulis, N. J. 1127, 6728
Shaumyan, I. K. 5881
Shavishvili, L. M. 3286
Shavrov, L. A. 8965
Shaw, G. W. 8422

Shaw, J. G. 5565 Shaw, P. E. 2412, 4023 Shawkat, A. L. 8491 Shay, F. J. 3 Shay, F. J. 3 Shaybany, B. 2867 Shcheglov, N. I. 7313 Shcherbakova, L. T. 3293 Shcherbakova, L. I. 3293
Shcherbakova, L. K. 581
Shcherbatyuk, L. K. 581
Shchipya, G. I. 2989
Shchigel'skii, O. A. 5531
Shchori, Y. 4549
Shear, C. B. 922, 1771, 4201, 4981, 6479
Sheard, G. F. 2166, 3296
Sheberstov, V. V. 3972, 7112
Shein, T. 5994
Sheir, H. M. 4456
Sheldrake, A. R. 706
Sheldrake, A. R. 706
Sheldrake, E. J. 2363, 2364, 5526, 9042
Shelton, J. E. 4203
Shen, R. S. 4049
Shen, R. S. 4049
Shen, R. S. 4049
Shen, R. S. 1404
Shende, S. T. 1664
Shenk, M. D. 2442
Shepel's'ka, O. G. 4180
Shepherd, K. 1537
Sher, S. A. 2288
Sherbeeny, M. R. El 5168, Sherbeeny, M. R. El 5168, 5172 Sherer, V. A. 3590 Sherer, V. O. 8539 Sheridan, K. P. 442 Sherman, W. B. 1067, 3484, 4242, 6527 Sherstenikina, A. V. 5091 Sheta, I. B. 7322 Sheth, K. 8028 Sheth, K. 8028
Shety, K. 8028
Shevyakova, N. I. 2815
Shibata, S. 3068, 5527
Shibuya, F. 2288, 3014, 5221
Shibuya, H. 7140
Shibuya, M. 4108
Shifrin, Yu. 8732
Shiga, Y. 2080, 8735
Shigaeva, M. Kh. 6792
Shigematsu, K. 7001
Shigeura, G. T. 6374
Shigo, A. L. 6211
Shih, S.-C. 7253
Shih-Tien Hsu 5247
Shikhamany, S. D. 1913, 8551
Shildrick, J. P. 7918
Shilo, R. 4655, 8892
Shim, K.-K. 2571, 7398
Shimabukuro, R. H. 1650 Shimabukuro, R. H. 1650 Shimada, N. 1997 Shimada, T. 4475 Shimizu, T. 4592, 6352 Shimizu, Y. 5880 Shimokoriyama, M. 1305, Shimokoriyama, M. 1305, 4592
Shimosako, Y. 7140
Shimura, I. 2430, 84447
Shin, G. C. 2148
Shin, K. C. 2147, 3826
Shindy, W. W. 8567
Shingary, M. K. 3257
Shingu, T. 5570
Shininger, T. L. 2823
Shinji, E. 1024
Shinozaki, M. 3848
Shipchandler, M. T. 2372
Shipton, J. 4826
Shirasaki, S. 1780
Shirkanova, V. G. 8415
Shirko, V. N. 621, 6900
Shiroma, M. 8174
Shishkanu, G. V. 6573
Shishkina, L. A. 8695
Shishkov, S. 1907 4592 Shishkina, L. A. Shishkov, S. 1907 Shishkov, S. 1907 Shivashankar, K. 238 Shivashankar, Y. T. 814 Shivashankara, K. T. 3578 Shkrvashankara, G. Ya. 3285 Shkreba, V. C. 6537 Shlyapnikov, S. B. 8347 Shmueli, M. 3624, 4376, 4448, 4537, 6891 Shoaib, A. M., El-M. 3079 Shoferistov, E. P. 7440

Sholokhova, V. A. 3097 Shomosh, A. 5881 Shone, M. G. T. 5081 Shorey, H. H. 5929 Shoreky, H. H. 3929 Shorokhov, S. S. 5699 Short, K. C. 6017 Short, T. H. 2113, 2114, 2863, 2864, 2886, 3396, 5363, 5364 5008 Short, R. C. Solva Short, T. H. 2113, 2114, 2 2864, 2886, 3396, 5363, 5364, 5908 Shorthill, M. J. 49 Shortle, W. C. 4715 Shoulders, J. F. 2264 Showalter, R. K. 5264 Shreter, G. K. 2358 Shrivastava, S. S. 9200 Shropshire, W., Jr. 5687 Shtefyrtse, A. A. 5717 Shterenberg, P. M. 3568 Shubina, L. S. 764, 7369 Shubina, L. S. 764, 7369 Shubina, L. S. 764, 7369 Shubina, D. D. 5164 Shukla, R. 4098 Shukla, R. N. 9134 Shukla, R. N. 9134 Shukla, U. C. 7138, 9087 Shul'gin, I. A. 6487 Shull, A. V. 6332 Shull, V. E. 4221 Shulman, Y. 6479 Shultz, P. G. 6950 Shumaker, J. R. 5919 Shumaker, J. R. 5919 Shumik, S. A. 5138 Shumway, L. K. 2855 Shur, I. I. 8005 Shuruba, G. A. 6600 Shurygina, T. D. 2901 Shutak, V. G. 6524, 8419 Shvebs, A. G. 5340 Shvedskaya, Z. M. 8632 Siba, S. 2430 Siddappaji, C. 5489, 6251, 6252 Siddappaji, C. 5489, 6251, 6252 Siddique, M. A. 1277, 5330 Siddiqui, M. S. 3031 Siddiqui, S. A. 5530 Sidel'nikova, L. I. 3741 Sidhu, A. S. 1275, 1489, 3585, 8232, 8233 Sidorenko, V. A. 949, 3430 Sidorov, V. I. 1948 Sieber, J. 4611, 5472, 6161, 6979 6252 5979 Siechowski, J. 8114 Siegel, M. R. 655 Siegel, S. M. 157 Sij, J. W. 8658 Sijpesteijn, A. K. 5355 Sij, St. K. S355 Sipesteijn, A. K. S355 Sikharulidze, A. M. 8117 Silber, H. 2277 Silberschmidt, K. M. 3634 Silberstein, Y. 2239 Silina, Z. M. 2255 Silinis, H. 2346 Sill, W. H., Jr. 2447 Sillix, D. 7881 Silva, A. J. da 9195 Silva, C. G. 5644, 9183 Silva, C. J. da 9170 Silva, F. 6294 Silva, F. P. W. 9183 Silva, J. V. da 8985 Silva, M. 8960 Silva, M. 8960 Silva, P. 5612 3634 Silva, P. 5612 Silva, R. L. de 9270 Silva, R. L. de 7265 Silva, R. L. de 7265 Silva, U. L. L. de 6468, 6469 Silveira, A. C. 5580 Silveira, S. G. P. da 4532 Sim, E. S. 4735 Sim, K. Y. 3294 Simakina, S. V. 76, 1014, 3467 Šimána, S. 8123 Simbwa-Bunnya, M. N. 4474 Simbwa-Bunnya, M. N. 4474, 8220 Simchon, S. 2239, 4655, 8892 Simeonova, I. 8594 Simidchiev, Kh. 3796 Simidchiev, T. 8334 Siminovitch, D. 8768 Simlot, M. M. 231 8220

Simmonds, N. W. 9222 Simmonds, S. P. 4711 Simmons, A. F. 435 Simola, L. K. 5413 Simon, E. W. 163, 4499 Simon, I. 7543 Simon, E. W. 103, 4499
Simon, I. 7543
Simon, J.-L. 584, 2710
Simon, L. 9056
Simonnet, M. 6030
Simonova, T. T. 528
Simons, D. H. 1363, 7010
Simons, R. K. 4914, 4959, 5727, 5729
Simovski, K. 3489, 6666, 7445
Simpson, G. M. 3743
Simpson, K. L. 5365
Simpson, R. E. 3315
Sims, W. L. 2134
Sinclair, J. B. 5102, 6086
Sinclair, W. A. 6728
Sinden, J. W. 7830
Singh, A. 3144, 3292, 7065, 8979
Singh, A. B. 1609, 3246, 6414 8979
Singh, A. B. 1609, 3246, 6414
Singh, A. R. 3218
Singh, B. 1298
Singh, B. 2012, 2070, 4485, 5995, 7616
Singh, B. P. 271, 401, 1459, 1629, 7118, 8881, 8982
Singh, C. B. 352, 5827
Singh, C. P. 9006 Singh, C. P. 9006
Singh, D. 400
Singh, D. 400
Singh, D. W. 842, 6050
Singh, D. V. 842, 6050
Singh, G. 416, 1275, 3585, 7765, 8211, 8232
Singh, G. P. 4098, 8194, 9250
Singh, H. 677, 2473
Singh, I. 7758
Singh, I. 7758
Singh, I. S. 8091
Singh, J. S. 8091
Singh, J. N. 337
Singh, J. N. 337
Singh, J. P. 380, 1639, 3656, 5434, 5977, 6808
Singh, J. R. 8161, 9173
Singh, J. R. 8161, 9173
Singh, J. S. 1259
Singh, K. 165, 2740, 8230, 8663 8663 Singh, K. K. 3212, 5573 Singh, L. B. 3238 Singh, M. M. 5643 Singh, M. P. 849 Singh, N. D. 2460 Singh, N. T. 4447 Singh, O. 416, 1629 Singh, O. S. 633, 1152, 4354, 4721, 5207 Singh, P. 3291, 5665, 9280, 9281 8663 Singh, P. P. 8211 Singh, R. 569, 796, 2713, 3234, 3291, 4641, 5665, 6808, 8772, 9280, 9281 Singh, R. D. 840, 1590, 3214, 3937
Singh, R. K. 206, 3227
Singh, R. K. N. 4819
Singh, R. N. 2525, 2707, 3210, 3234, 3237, 3241
Singh, R.-N. 6718
Singh, R.-N. 9178
Singh, R. P. 7237, 7757
Singh, R. R. 8194
Singh, R. S. 3209, 4721, 9006
Singh, S. 3086, 3228, 6427, 6438, 7754, 8786, 9134, 9233 9233 Singh, S. N. 7550 Singh, T. K. S. 6894 Singh, U. R. 5630 Singh, U. S. 9242 Singh, V. P. 8987 Singh, V. P. 8987 Singh, Y. P. 653 Single, W. V. 442 Sinha, A. C. 9224 Sinha, G. C. 3230, 3231 Sinha, M. K. 569, 4470, 5562, 6754, 7143, 8059, 8559 Sink, K. C., Jr. 1390 Sinn, H. 7502

Sinnadurai, S. 602, 3770 Sińska, I. 3380 Sinyukhin, A. M. 3687 Siok Hui Sy 5902 Sircar, S. M. 1671, 3011 Siregar, M. 8180 Siregar, O. 8179, 9209 Sirohi, P. S. 5948 Sirry, A. R. 4489 Sirsi, M. 808 Sistrunk, L. A. 6813 Sistrunk, W. A. 1207, 1221, 4391 4391 Sithanantham, S. 6443, 9227, 9253 9253 Sithananthan, S. 9227 Sitterly, W. R. 3316 Situmorang, S. 4840 Sivakumar, C. V. 381 Sivakumaran, S. 758 Sivapalan, P. 2484 9227 Sivapaian, F. 2484 Sivasubramaniam, S. 6458 Sivori, E. M. 4647 Sivtsey, M. V. 6269, 6926, 8778 Skene, D. S. 8318 Skene, K. G. M. 1121, 1928, 5140 5140 Skiba, N. S. 7393 Skidmore, E. L. 11 Skiebe, K. 6156 Skinner, G. 8625 Skipp, R. A. 3706 Skirde, W. 3890, 5441, 7920, 7927, 8915 Skirvin, R. M. 5870 Skoblin, A. P. 2116, 5376, 7747 7747 Skoblina, L. P. 2116, 5376
7747
Skočík, M. 4597
Skorpík, M. 6801
Skrentny, R. F. 2033
Skroch, W. A. 625, 6068
Skrubis, B. G. 4738
Skrypnik, V. V. 5121
Slack, C. I. 7833
Slack, D. A. 8563
Slack, G. 886
Sladký, Z. 2663
Slate, G. L. 5427, 5428
Slatyer, R. O. 4, 2508
Slavcheva, R. 2533
Sleesman, J. P. 4383
Slepyan, L. I. 8034
Slesinger, Z. 2717
Sliwowski, J. 4637
Sloane, G. E. 2478
Slob, A. 8908 Skoblina, L. P. 2116, 5376, Slob, A. 8908 Slogteren, D. H. M. van 290 Slogteren, D. H. M. van 2958, 6180, 7007 Slomnicki, I. 3540, 3546 Slović, D. 2522, 3385, 3386, 6545 Slović, D. 2522, 3385, 3386, 6545
Slowik, K. 946
Sly, J. M. A. 3958
Smagula, J. M. 2691
Smal, J. P. 4152
Small, R. H. 4787
Smart, R. E. 8565
Smeal, P. L. 2312
Smillie, G. W. 6908, 6909
Smirnov, A. G. 1048
Smirnov, A. M. 193, 9052
Smirnov, A. G. 3001
Smit, E. H. D. 388
Smith, B. D. 4222
Smith, B. N. 3739
Smith, C. A. 43
Smith, C. N. 7282
Smith, C. R., Jr. 4761
Smith, D. A. 8688
Smith, P. H. 4848
Smith, H. 5687, 7733
Smith, H. A., Jr. 7752
Smith, J. D. 1371, 5428, 7929
Smith, J. R. 8703
Smith, J. G. 8703
Smith, J. G. 8703
Smith, J. R. P. van H. 3906
Smith, J. W. 4394 Smith, J. R. P. van H. 3906 Smith, J. W. 4394

Smith, J. W. M. 3642 Smith, L. P. 10 Smith, M. S. 2031 Smith, M. S. Smith, M. W. 1844 Smith, M. W. G. 34, 3353 Smith, N. J. 624 Smith, O. E. 1154 Smith, O. S. 8643 Smith, P. F. 3117, 8073 Smith, P. R. 6632 Smith, P. R. 5183 Smith, R. 5183 Smith, R. A. 9076 Smith, R. B. 1801 Smith, R. F. 2501, 7282 Smith, R. F. 2501, 7282 Smith, S. 9246 Smith, S. 9246 Smith, S. H. 512, 1822, 1823, 1824, 1825 Smith, W. 3908 Smith, W. L., Jr. 1832, 6619 Smock, R. M. 964, 1772 Smolenski, S. J. 2346 Smolensky, D. C. 8108 Smoliński, M. 8400 Smolyaninova, L. A. 281 Snoe, R. D. 690 Smol'yaninova, L. A. Snee, R. D. 690 Sneh, B. 110 Snezhko, V. L. 8488 Snizhko, V. L. 1302 Snoad, B. 2048 Šnobl, J. 5506 Snoek, N. J. 7643 Snyder, G. H. 7946 Snyder, M. J. 3636 Snyder, W. C. 2057, Snyder, W. E. 6215 So, V. 3163 Snyder, W. E. 6215 So, V. 3163 Šobek, J. 3454 Sobers, E. K. 2287, 6240, 7943 Sobesky, O. 7823 Soboleva, L. E. 5426 Sobolevskaya, K. A. 8988 Sobornikova, I. G. 1912 Soczek, Z. 7362, 7501, 8398 Sodja, A. 4784 Soeda, Y. 4477 Soedarson, 8133 Soeda, 1. 4477 Soedarsono 8133 Soeffky, A. 7594 Soenarjo 8133 Soenen, A. 951 Soepadmo, B. 4078, 8273, 8274 8274 Sofowora, E. A. 774, 9023 Sogoyan, P. Ya. 581 Sohi, A. S. 8760 Sohi, H. S. 4063, 7546 Sohoo, M. S. 204 Sokolova, V. A. 5088 Sokolova'ka, T. Ī. 6721 Solangi, G. R. 1610 Soleimani, A. 583 Solaing, G. R. 1610 Soleimani, A. 583 Solel, Z. 3130 Solomon, J. J. 2807 Solomonovskii, L. Ya. 6100 Solomonovskii, L. Ya. 6100 Solomos, T. 656 Solovei, E. P. 6709 Solov'ev, I. S. 40, 8377 Soltanpour, P. N. 4413 Sölva, J. 464, 5052, 6568, 7562 Somma, V. 815, 4802, 4803 Sommer, H. E. 6929 Sommer, H. E. 6 Somos, A. 6799 Somoss A. 5881 Son, J. S. 475 Sonawane B. R. 857 Sondheimer, E. 2803, 2804 Song, K. W. 544, 1180, 1308 Song, S. F. 8829 Song, S. F. 8829
Sonnenberg, P. E. 1963
Sonneveld, C. 8606
Sonoda, R. M. 4574
Sood, A. R. 353
Sood, P. P. 2213
Sood, P. P. 2213
Sood, V. K. 9018
Soon, P. 4076
Sost, R. K. 6329, 7123
Sopalova, E. V. 3498, 4283
Sorge, P. 1875
Soria V., J. 1666, 7178
Soriano, J. M. 7748
Sorogera, T. 1228
Sorour, A. 6470
Soseliya, M. F. 4903
Soškić, A. 2594, 2656

Author Index Šoškić, M. 2619, 3451 Soskie, M. 2619, 3451 Sosnová, V. 241 Sotirov, A. 504, 2655 Sotirova, V. 257 Soto Salazar, C. A. 1576 Sottile, I. 1520, 6376 Soule, J. 1505, 1594, 1659, 8054 Soulen, D. M. 512, 1823, 1824, 1825, Sourlekov, P. 3620 Sousa, L. da C. e 3563 South Africa, South African Sugar Association Experiment Station 7230 South African Sugar Journal 7229 Southwick, F. W. 976 Southwood, T. R. E. 2501 Souty, J. 2524 Spaar, D. 1836, 5164, 5410, 7298, 7299, 8436 Spaargaren, M. D. 2226 Spadafora, R. R. 1292, 3809, 4712, 5253 Spalding, D. H. 1287, 4873 4712, 5253
Spalding, D. H. 1287, 4873
Spaldon, E. 236, 1262
Spaldon, E. 1263
Spaldon, E. 2096
Spangelo, L. P. S., 4174
Sparapano, L. 4796
Sparks, D. 1038, 5795
Sparnaaij, L. D. 7896, 7897
Sparrow, A. H. 5418
Spasov, S. P. 3796
Spasov, Ts. 7467
Spears, G. F. S. 618
Spears, G. F. S. 618
Speak, G. F. S. 617
Speckmann, G. J. 1370 Speak, G. F. S. 57 Speckmann, G. J. 1370 Spek, J. van der 3325, 6785 Spelbaum, A. 3335 Spencer-Jones, D. H. 6542 Spelbaum, A. 3335
Spencer-Jones, D. H. 6542
Spencer, M. 656
Spencer, P. W. 50, 7400
Spensley, P. C. 355
Sperling, D. 3597
Spiegel-Roy, P. 4166, 4341, 5058, 5708, 6333, 7124
Spielmann, H. 2435
Spiker, S. 3745.
Spirovska, R. 3489
Splittstoesser, W. E. 2571, 7398, 7693
Spomer, L. A. 6147
Spongberg, S. A. 6131
Sprague, G. F. 4
Sprent, J. I. 2040
Spring, M. S. 2208, 2209
Spronk, A. M. 3675
Spruit, C. J. P. 4505
Spruit, C. J. P. 4505
Spruit, G. 8360
Spurdon, C. 4634
Spurling, A. T. 7164, 8673
Spurling, D. 7164
Spurr, A. R. 2641, 3820
Squire, F. A. 5654, 5671
Squire, J. 5470
Sreenivasan, A. 3210
Sri Lanka, Coconut Research
Institute 7185
Sri Lanka, Director of
Agriculture 2733, 3171, 6323 Agriculture 2733, 3171, Sri Lanka, Tea Research Institute 8262
Sridhar, T. S. 4063, 7546
Srikantiah, B. V. 6397
Srimathi, R. A. 3038, 7086
Srinivasa, M. V. 6397, 6399
Srinivasachar, D. 8613
Srinivasan, C. 3578, 4045
Srinivasan, C. S. 3207, 8146
Srinivasan, C. S. 3207, 8146 Srinivasan, K. 5992 Srinivasan, T. R. 4090 Sripathi Rao, B. 8183 Sriraman, M. C. Srivastava, A. K. 9039 4818 Srivastava, A. S. Srivastava, D. C. 330, 653 143, 1011 Srivastava, D. N. Srivastava, G. N. 3242 8992 Srivastava, K. C. 5555 Srivastava, L. S. 2980

Srivastava, S. N. 7065 Srivastava, U. S. 8981 Srp, A. 5509 Srp, A. 5509
Sruoginite, A. V. 5897
Staaveren, M. C. van 7875
Staby, G. 2251, 2252, 3869
Staby, G. L. 295, 6177
Stacey, B. E. 7056
Stadelmann, E. 3737
Stadelmann, E. J. 5313
Staden, J. van 750, 6243
Staden, O. L. 1798
Stadler, J. D. 5782, 7456
Stafford, E. M. 5862
Stafford, J. R. 978
Stafford, J. R. 1650
Stafford, L. 1650
Stafford, L. M. 795 Stadler, J. D. 5782, 7456
Stafford, E. M. 5862
Stafford, E. M. 5862
Stafford, J. R. 978
Stafford, L. E. 1650
Stafford, L. E. 1650
Stafford, L. M. 795
Stahl, W. H. 8984
Stähli, H. R. 7519
Stähli, A. 3895
Stahly, E. A. 961, 5000, 8373
Stahmann, M. A. 8718
Stařkov, V. 7986
Stainer, R. 1806
Stajić, N. 2594
Stalder, L. 909, 1712, 2562
Stall, R. E. 2848, 5916
Stambera, J. 2887, 4442
Stampar, K. 2661
Stančević, A. S. 2620, 2628, 3487, 3490, 3537
Stanchev, L. B. 683, 684
Stanchina, G. de 5740
Standardi, A. 1521, 7455
Stančk, J. 4188
Stänescu, D. 8538
Stanev, B. 2799
Stanev, B. 2799
Stanev, D. 5499
Stang, E. J. 549
Stanhill, G. 1472
Stanislas, E. 8027
Stankevich, N. B. 7914
Stankov, A. 1. 5855
Stanković, D. 2520
Stano, J. 3078
Stanojević, S. 8541
Stanová, M. 5757
Stansell, J. R. 8309
Starbuck, J. S. 2015
Starch, J. R. 6984
Starikov, A. G. 6941, 7820
Stark, R. 3532, 5811, 8498
Staro, T. 762
Starozhilova, O. N. 8343
Starter, F. 2356 Starozhilova, O. N. 8343 Starý, F. 2356 Statens Forsøgsvirksomhed i Plantekultur 4699 Statsenko, A. P. 6679 Statsenko, A. P. 6679 Statskevich, I. M. 4970 Statub, A. 8517 Staub, T. 1985, 2760 Staudt, G. 1930, 6762, 8555 Steadman, J. R. 644 Stearn, W. T. 7279 Stebbins, R. L. 1775, 4221 Steblyuk, N. I. 5277 Steekelenburg, N. A. M. van 3929 3929 Steen, J. A. Van der 2211 Steen, J. v. d. 7878 Steen, J. v. d. 7878 Steen, J. van der 7878 Steen, T. N. 3936 Steenkamp, J. C. 2574 Steer, B. T. 6044, 6357, 8754 Stefan, N. 7482 Stefanizzi, L. 6190 Steib, R. J. 6442, 8224, 9252 Steib, T. 6473 Stein, A. 1391, 6137 Steinkab, P. 5352, 6088 Stein, A. 1391, 6137 Steinbach, P. 5352, 6088 Steinberg, B. 5114 Steindl, D. R. L. 8226 Steiner, A. A. 1677 Steiner, G. W. 424, 4097 Steiner, K. G. 1579, 2450 Steiner, R. 1851 Steinitz, B. 8697 Stellmach, G. 5853 Stellmach, G. 5853 Stellmaag-Kittler, F. 1914 Stembridge, G. E. 1782, 1830, 5774, 5775, 5777

Stene, J. 4135 Stenina, N. V. 2084 Stenmark, A. 6089 Stenseth, C. 2503, 5818, 7802 Stenmark, A. 0609 Stenseth, C. 2503, 5818, 7802 Stepanova, P. A. 4179 Stepanova, A. M. 5318 Stepanova, E. M. 2989 Stepanova, F. P. 7417 Stephenson, G. R. 3660 Steponkus, P. L. 2927, 2997 Stepp, B. R. 6812 Sterling, C. 289 Stern, A. I. 7710 Sterrett, J. P. 4481 Stessels, L. 2453 Stetsenko, I. I. 6727 Stettiner, M. 3763 Steubing, L. 6015 Steveninck, M. E. Van 5171 Steveninck, M. E. Van 5171 Steveninck, R. F. M. Van 1956, 5171 1956, 51/1 Stevens, C. P. 3676 Stevens, K. L. 6369 Stevens, M. A. 2892 Stevens, W. A. 4634 Stevenson, D. W. 7939 Stevenson, D. W. A. 414 Stevenson, J. 1502 Stevenson, J. H. 4490 Stevenson, N. D. 5648, 8192 Stevenson, W. R. 7729 Steward, F. C. 6110, 6111, 6112, 6479 Stewart, C. R. 3722, 5261, Stewart, F. B. 8770 Stewart, I. 2410, 4814 Stewart, J. K. 1157, 2756, 5915, 6790 5915, 6790 Stewart, P. S. 5380 Stewart, R. B. 5456 Stewart, R. N. 1344, 1385, 7441, 8877 Steyn, P. L. 8162 Stice, N. W. 2275 Stichting Proefstation voor de Champingoncultuur, 6120 Champignoncultuur 6120 Stickland, R. G. 273 Stickler, P. 882, 1685, 6496, 8849 8849
Stienstra, W. C. 8962
Stigter, H. C. M. De 155
Stiles, J. I. 3849
Stilles, W. C. 4989
Still, G. W. 5127
Stimamiglio, L. 4358
Stino, G. R. 1829
Stipes, R. J. 4209
Stocker, W. 4322
Stocky, G. 531
Stoessl, A. 1268, 5324, 7763
Stoev, K. 1896, 1909, 2718, 6717, 6767, 8537
Stoev, K. D. 582
Stoffert, G. 1317, 2175, 4704, 8904
Stöhr, D. 2160 8904 Stöhr, D. 2160 Stohr, J. 4996 Stohs, S. J. 776, 1435, 2342 Stoilan, E. 7556 Stoilov, A. 6546, 8421 Stoilov, G. 4200, 6556, 6557 Stoitsev, A. 2856 Stojkovska, A. 6629, 7447 Stoker, J. R. 2208, 2209 Stoker, R. 8715 Stoll, K. 981, 4226, 5753, 6590, 8408 Stoltz, L. 2008 6590, 8408 Stoltz, L. 2008 Stoltz, L. P. 2783, 6828 Stolyarova, L. A. 8081 Stolzy, L. H. 2383, 2393, 3987 Stompfová, H. 7081 Stone, B. C. 3985 Stone, E. G. 1422 Stone, O. M. 7012 Stoner, O. M. 7012 Stoner, A. K. 5335, 7771 Stonov, L. D. 7532 Storey, I. F. 7826 Storey, J. B. 1844 Storozhenko, E. M. 5701,

Stort, M. N. S. 1381, 2977, 8934 Störtzer, M. 936, 937, 938, 1736 Störtzer, T. 936, 937, 938, 1736 Stösser, R. 68, 69, 1002, 1004, 8445 8445 Stothers, J. B. 7763 Stouffer, R. F. 512, 1822, 1823, 1824, 1825 Stout, B. A. 55 Stover, R. H. 5604, 7175 Stowe, B. B. 6255 Stoy, V. 4 Stoyanov, S. 5745, 6674, 7 Stoyanov, S. 5745, 6674, 7536, 7538 7538 Stoyanov, S. M. 6539 Strada, G. della 3547 Strakhova, Z. S. 2564 Strandzhev, A. 6606 Stratmann, S. 2303, 2984, Strauss, D. 2436
Strauss, D. 2436
Strauss, E. 489, 4266, 4295
Streibl, M. 4714
Streiff, R. R. 4816
Streitberg, H. 8397
Strekalova, A. I. 5369
Strekozova, V. I. 7061
Strelets, V. D. 1807
Strel'nikova, V. N. 2683
Stretch, A. W. 5090
Strickland, A. H. 1692, 2501
Strijdom, B. W. 4469
Strobel, G. A. 424, 8231
Strobel, J. W. 6914
Strogonov, B. P. 2815, 3734, 6927
Strube, U. 4500 6160 Strube, U. 4500 Struckmeyer, B. E. Struckmeyer, B. E. 5416 Struppek, G. 2285, 5469 Strydom, D. K. 4973 Stuart, N. W. 1359, 5428 Studentsov, O. V. 4420 Studentsov, O. V. 4420 Stuiver, B. 2963 Stukkeř, K. L. 7914 Stull, J. W. 372 Stumpf, P. K. 4784 Sturm, M. 6782 Sturua, Z. Sh. 5875 Stushnoff, C. 2587, 7353 Su, N. H. 2151 Suárez, E. 308 Subbarao, P. 6256 Subbiah, R. 697, 6810 Subbah, S. 5497 Subbotovich, A. S. 1093 Subbiah, S. 5497 Subbrotovich, A. S. 1093 Subirats, F. J. 4686 Subramaniam, A. 853 Subramaniam, T. R. 447, 838 Subramanian, S. S. 2341, 3035, 4771, 6239, 6304, 9285 Subramanian, T. M. 3150, 9106 Subramanian, T. R. 1572 Subramanyam, H. 3210, 4872, Subramanyam Raju, D. 3225 Subramanyam, S. 8596 Subramanyam, Raju, D. 3225
Subramanyam, S. 8596
Suchý, V. 3078
Sudakov, V. L. 5285
Sudo, S. 4528, 4533, 5328
Suess, J. 3337
Sufi, S. M. 6479
Sugahara, Y. 2111
Suh, C. S. 1443
Suhonen, I. 5215, 6019, 8615
Sukartaatmadja, K. 8179, 9209
Sukhareva, T. T. 5293
Sulebele, G. A. 8745
Suleimanova, S. S. 7677
Suleimenova, L. 5536
Sulikeri, G. S. 2715, 6003
Sullivan, C. Y. 4
Sullivan, D. T. 5718
Sullivan, D. T. 5718
Sullivan, G. H. 3795
Sulochana, C. B. 2807
Sulochana, C. B. 2807
Sulochana, C. B. 2807
Sulochana, N. 6239
Sulser, H. 6369
Sultana, F. 5480
Sulzbach, C. W. 6932

Sumbak, J. H. 9149 Sumenkova, T. N. 8446 Sumida, S. 6758 Sumida, S. 6758 Summer, D. R. 146, 2771 Summers, L. A. 2041, 2042 Summers, L. L. 6334, 8099 Summons, R. E. 3017 Sumner, M. E. 410 Sun, S. M. 4484 Sunarjono, H. 5188, 6034 Sund, K. A. 8246 Sundaram, S. 7179 Sundararaj, D. D. 300 Sundararaj, J. S. 3210, 3240, 4044, 4871 4044, 4871 Sundararajan, S. 697, 6810 Sunde, R. 7631 Suomi, K. 101 Suprunov, N. I. 3961 Süptitz, W. 8945 Surányi, D. 4164, 8329 Surányi, D. 4164, 8329
Surendranathan, K. K. 6390
Surlekov, P. 237, 3620, 3621
Surre, C. 2456
Suruzhin, V. T. 5105
Suruzhin, V. T. 1113
Surya Kantha Raju, K. 4857, 8147, 9161
Susnoski, M. 3325
Süss, W. 5521
Sussex, I. M. 4692
Sutandjono, S. 4762
Sutcliffe, J. F. 215, 3299
Suteu, F. 325
Sutherland, O. R. W. 3410 Suteu, F. 325
Sutherland, O. R. W. 3410
Suthers, G. 3989
Sutić, D. 3506
Sutidjo, K. 4106
Sutra, G. 2906
Sutton, B. G. 4674
Sutton, D. L. 123
Sutton, P. 3785
Sutton, T. B. 7450
Suzuki, E. 1998
Suzuki, H. 2592
Suzuki, I. 2111
Suzuki, T. 6826, 8071, 8637, 9279
Suzuki, y. 2818 Suzuki, I. 6826, 80/1, 863/, 9279
Suzuki, y. 2818
Sváb, J. 6261
Švachulová, J. 5266
Svampa, G. 4454, 6820
Svejda, F. J. 318, 4706, 4707
Svendsen, A. B. 3024
Sveshnikova, I. N. 2780
Svetov, V. G. 578, 5129, 7574
Svoboda, G. H. 2347
Svoboda, J. 5272, 5273
Swaify, S. A. El 6439
Swaify, S. A. El 6439
Swaify, S. A. El 4888
Swamy, G. S. 839, 3210, 3225
Swanson, C. A. 8658
Swanson, C. A. 8658
Swanson, S. T. 7049
Swartt, G. H. De 256
Swart, J. 3769
Swartz, H. D. 8171
Swarup, V. 5977, 6173
Sweden, Lantbrukshögskolan,
Avdelningen för Avdelningen för Växtförädling av Frukt och Bär, Balsgård 5075 Sweden, Lantbrukshögskolan, Avdelningen för
Växtförädling av Frukt och
Bär, Balsgård 6508
Sweep, A. A. M. 1139, 1265,
1979, 3781
Sweet, R. D. 3797 Sweet, R. D. 3797 Swenson, K. G. 5428 Swift, J. G. 8573 Swinburne, T. R. 575: Swingle, H. D. 641 Swirski, E. 7459 Switzer, G. M. 2263 Switzerland Switzerland, Arbeitsgemeinschaft für Sortenprüfungen bei Zierpflanzen aus Samen Switzerland, International Potash Institute 864 Sy, S. H. 5902

Sychev, V. G. 3458 Sycheva, Z. F. 654 Sydnor, T. D. 6176 Syed, M. M. 4888, 6439 Sykes, J. T. 1854, 6665 Synge, R. L. M. 6783 Syogaki, Y. 2625, 2742 Syono, K. 5529 Syrdal, D. D. 7965 Sys, S. 4232 Systema, W. 2913 Sytnik, K. M. 2071, 3746 Sytsema, W. 2182, 2194, 7861, 7866, 7906 7866, 7906 Szabó, I. 6107, 7672 Szabó, L. G. 6838 Szakál, M. 6042 Szász, K. 6064 Szczepański, K. 8369, 8370, 8371 Sze, W. B. 6435 Szegedi, S. 5141 Székely, I. 8516 Szendrei, K. 4775, 9038, 9056 Szilágyi, K. 8509 Szilasi, M. 6284 Szilasne, M. K. 4061 Szith, R. 8355, 8356 Szkolnik, M. 92, 986 Sztejnberg, A. 7615 T., J. 3519, 6672, 6696 T., J. M. 1658 Tabardel, J. P. 8454 Tabata, M. 9035 Taborsky, V. 8701 Tadmor, U. 1490 Taffin, G. de 4852 Taira, S. 3057 Takahashi, D. T. 7255 Takahashi, D. T. 7255 Sze, W. B. 6435 Takahashi, E. 3168, 4114, 4906
Takahashi, J. 1616
Takahashi, N. 4517
Takahashi, S. 2577
Takahashi, T. 6698
Takakuwa, M. 8650
Takama, F. 2744
Takanashi, K. 6642
Takatzu, A. 5563
Takehana, H. 5366
Takematsu, T. 2117
Takemoto, T. 7999
Takenaga, T. 4933
Takeo, T. 4108, 4115, 4904, 5664 4906 Takeshita M. 4682
Takeuchi, Y. 2117
Takidze, R. M. 7133, 9083
Talapatra, B. 4767
Talapatra, S. K. 4767
Talapatra, S. K. 4767
Talbert, R. E. 623, 8588
Tale, Y. M. 619
Talekar, N. S. 6863
Talekar, R. R. 2373
Talhouk, A. S. 459
Talibudeen, O. 6458
Talipova, M. A. 9016
Talioi, N. 7567
Tam, L. Q. 176, 177
Tam Tai Kin 6410
Tamada, T. 8650, 9088
Tamaki, K. 6000
Tamarova, A. F. 1862 5664 Tamarova, A. F. 1862 Tamás, J. 6284 Tamberg, T. G. 2157, 2255, 4654 4054 Tamponi, T. 3566 Tamrazyan, E. 6164 Tamura, S. 2117, 6016 Tan, A. M. 4985 Tan, K. M. 8172, 9197 Tanaka, H. 2389, 2398, 3124, 4799 5331 Tanaka, J. S. Tanaka, J. S. 5331 Tanaka, M. 2098 Tanaka, O. 3068 Tanaka, S. 4116 Tanas'ev, V. K. 928 Taneja, S. 277 Tanev, Z. 688, 6077 Tang, C.-S. 7217, 8170 Tango, J. S. 359 Taniguchi, T. 7153

Tanner, C. B. 1250 Tanner, C. B. 1250 Tanno, S. 2592 Tantera, D. M. 9252 Tanton, T. W. 1223, 1224 Taper, C. D. 972, 5010, 5712 Tapia M., F. 5794 Tapio, E. 1072, 1073, 4308, 4643 4643 4643
Tappan, W. C. 7223
Tarakanova, G. A. 6857
Tarasashvili, K. M. 7717
Tarasenko, M. P. 8352
Tarasov, V. M. 1742
Tarjan, A. C. 3133
Tarjot, M. 1552, 8136
Tartaglia, F. P. 2943
Tartier, L. 7751
Tarusov, B. N. 6727
Tarutani, T. 6361
Tarverdyan, V. I. 3734
Taşcă, G. 7307, 7426
Tashiro, H. 7930
Tatachari, Y. 839
Tatarishvili, A. N. 4788
Tate, K. G. 473
Tate, L. A. 7475
Tatebe, T. 7671
Tateishi, S. 1835
Tatham, P. B. 4409
Tattrie, N. H. 8591
Taubel, N. 8894
Tauber, M. J. 3850
Tavadze, M. E. 7129
Tavdumadze, E. I. 3131,
Tavrin, A. E. 6014
Tawin, H. A. 4489 Tappan, W. C. 7223 Tavrin, A. E. 6014
Tawiic, H. A. 4489
Tay, T. H. 9199
Tayama H. E. Tayama, H. K. 2251, 2252, 3869 Taylor, B. K. 1018, 6479 Taylor, C. E. 2502 Taylor, G. S. 8719 Taylor, H. F. 3719
Taylor, H. J. 6650
Taylor, J. 1821
Taylor, J. D. 178, 651, 721, 8686 Taylor, K. D. 1642, 7170 Taylor, R. H. 575, 5853 Taylor, R. M. 2654 Taylor, S. E. 382 Taylor, W. C. 335 Tchibozo, H. M. 4852, 9155 Tchindé, J. 5599 Teaotia, S. S. 840, 1590, 3214, 3224, 5626 3224, 5626 Tee, J. L. 6463 Teh-ling Chu 8255 Tehrani, G. 3511 Teich, A. H. 7124 Teisseire, P. 8990 Teisson, C. 6419, 8175 Teles, F. F. F. 372 Tellarini, C. 4153 Temkin-Gorodeiski, N Temkin-Gorodeiski, N. Temkin-Gorodeiski, N.
Templer, J. C. 3277
Tenieshvili, P. P. 9275
Teodorescu, S. C. 7549
Teppaz-Misson, C. 274
Terakado, K. 2914
Terán, S. R. 6340
Teranishi, J. 2056
Teraoka, Y. 7140
Terblanche, J. H. 4973
Terek O. I. 154 Terek, O. I. 154
Terekhov, I. I. 6724
Terhune, S. J. 1413, 3947, 7965 7955 Terlidou, M. H. 6745 Terpstra, W. 4396 Terranova, W. A. 280 Terriere, L. C. 8997 Teshima, A. H. 4081, 8245 Tesi, R. 4624 Tešić, M. 6550, 6641, 6681 Teskev, B. J. E. 1783 Teskey, B. J. E. 1783 Tešović, Ž. V. 4177 Teufel, E. 6009 Teuscher, E. 8001 Tewari, H. B. Tewari, J. D. 1426 Tewari, M. N. 2808 Tewari, R. N. 5977

Teyssandier, E. E. 1212 Tezuka, Y. 5687 Thaine, R. 2510 Thakar, K. A. 7115 Thakur, D. P. 9118 Thakur, D. P. 9118
Thakur, D. R. 8330, 9079
Thakur, M. R. 8666
Thakur, P. C. 235
Thakur, S. S. 8330
Thamburaj, S. 697, 6810, 7756
Thampan, P. K. 9150
Than, A. 2898
Thapar, R. K. 930
Tharanathan, R. N. 3034
Theiler, R. 5904
Theiner, M. 2360
Theis, W. 579
Thicoipé, J. P. 6698
Thiele, G. F. 1046
Thieme, H. 329, 7079
Thirumalachar, M. J. 9090
Thom, M. 2476 Thom, M. 2476
Thomas 1153
Thomas, B. 4389
Thomas, G. 3955, 3959,
5510 5510
Thomas, H. E. 1886
Thomas, O. B., III 8294
Thomas, P. E. 2871
Thomas, S. M. 5964
Thomas, T. H. 150, 1249, 3667, 3772, 7611
Thomas, W. 1528, 4453, 8651
Thompson, A. C. 2306
Thompson, A. E. 2106
Thompson, A. H. 2644 Thompson, A. H. Thompson, A. K. Thompson, D. J. 2644 664 4372 427, 9263 Thompson, G. D. Thompson, J. A. 442 Thompson, J. M. 4208 Thompson, L. S. 1881 Thompson, L. S. 1881
Thompson, M. M. 1853, 8477
Thompson, W. F. 6012
Thompson, W. R. 5415
Thomsen, A. 2916
Thomsen, A. 3525
Thomson, G. M. 4086, 7242
Thomson, W. W. 4515
Thorne, S. N. 695
Thorne, S. N. 185
Thompson, J. H. M. 5675 Thornley, J. H. M. 5675, 5676, 6187 5676, 6187
Thornton, M. D. 4751
Thortappilly, G. 5276, 8717
Thyr, B. D. 2872
Ticho, E. 4039
Ticho, R. J. 1536
Tiessen, H. 4559, 6081
Tietema, T. 2964, 2965
Tigchelaar, E. C. 8764
Tiittanen, K. 1193
Tikanadze, L. N. 4801, 8060
Tikhonova, B. B. 4513
Tikhvinskii, I. 8533 Tikhvinskii, I. 8533 Tillge, L. 3863 Tillyaev, K. S. 9016 Tilney-Bassett, R. A. E. 3843, 6980 Timberlake, C. F. 58
Timmer, M. J. G. 2256, 5435, 8902, 8903
Timms, R. E. 3090
Timofeeva, T. A. 5190
Timon, B. 8460 Timoshenko, M. A. 2315 Timoshenko, S. E. 960 Tin-Wa, M. 2343, 5532, 6331 Ting, I. P. 7711, 8682 Tinga, J. H. 8943 Tingey, D. T. 5178 Tirdea, C. 2 Tirimanna, A. S. L. 3779, 4544 Tirtawidjaja, S. 3126 Tissut, M. 2834 Tite, D. J. 1254 Titova, V. 4294 Titus, J. S. 50, 2571, 7398, 7400 Tiwari, C. B. Tiwari, K. C.

Author Index Tiwari, K. N. 849 Tiwari, R. D. 3071 Tjan, G. H. 6501 Tjia, B. 6978, 8864 Tjia, B. 6978, 8864
Tjiptosuhardjo, S. 4874
Tkachenko, G. V. 1929
Tkachenko, V. I. 2334
Tkemaladze, G. Sh. 4903
Tkhakakhov, A. K. 4458
To, S. H. 1444
Toaima, N. M. 2167, 2168
Tobiášek, P. 2908
Tochihara, H. 1999 Tochihara, H. 1999 Tocino, E. M. 7171 Todaka, S. 2111 Todd, A. W. 4841 Todd, G. W. 5254 Todorov, I. 6767 Todorov, I. 6876, 6877, 8738 Todorov, Kh. 5118 Todorov, V. 2566, 4200, 6556, 6557 Todua, N. A. 2495 Tognoni, F. 717, 3910 Toit, J. J. du 7622 Toit, J. L. Du 7259 Toit, J. L. Du 7259 Toky, K. L. 7884 Tolbert, N. E. 1959 Toler, R. W. 2970, 2972, 6197 Tölgyesi, G. 6059 Tolle, W. E. 1705 Tolstoguzova, V. G. 4185, 8337 Tolstrup, E. 8940 Toma, L. 5338, 5900 Tomalin, A. W. 1077, 5089 Tomalin, A. W. 1077, 5089 Tomar, D. S. 9164 Tomaško, I. 2908 Tombesi, A. 564, 1521, 1818, 2422, 2426 Tomcsányi, P. 1679 Tome, F. 657 Tomerlin, A. T. 4002 Tomes, M. L. 8764 Tomin, A. L. El 2438 Tomimatsu, T. 570 Tominaga, N. 2430 Tomita, E. 8070 Tomizawa, C. 5928 Tomko, J. 7954 Tomlinson, J. A. 196 3940, 3941 Tomcsányi, P. 1679 4002 1969, 1984, 3940, 3941 3940, 3941 Tommerup, I. C. 7632 Tompa, A. 6715 Tompkins, C. M. 282, 3866 Tompkins, D. R. 1207, 1221, 5932, 5993 Tompsett, A. A. 2243, 7011 Tonakanyan, G. A. 4446 Tonchev, G. 2714, 6737, 6768 Tonder, M. J. van 5060 Tongdee, S. C. 1546 Tonini, G. 604, 990, 1507, 3433
Tonks, E. 5589
Tonks, N. V. 2122
Tonosaki, T. 7419
Toohey, C. L. 1651, 9232
Toor, H. S. 9174
Topalov, V. 1406
Topchiïska, M. 7378
Topchiïski, S. 4311
Topping, A. J. 1077, 3558
Torev, A. 8831
Tori, K. 5570
Torikata, H. 2272, 6352, 6645, 7458 3433 7458
Tormann, H. 7288
Török, L. 7494, 7508
Törökfalvy, E. 8565
Torre, G. della 3805
Torres M., R. 1461, 8052
Torres, R. E. 3595
Torrey, J. G. 6017
Tosello, G. A. 8934
Tosh, G. C. 1622, 8208, 9240
Tosi, H. 5580
Tosi, T. 5103
Tošić, M. 2522
Toskov, N. 688
Tošnarová, V. 9044
Tóth, A. 6514 7458

Tóth, D. 6720 Tóth, G. 6955 Tóth, L. 9034 Totterdell, C. J. Totubalina, G. V. 4125 7416 Toul, V. 6002, 6943 Toul, V. 5881 Tourneur, J. C. 2416 Tourte, J. 3327 Tourte, J. 3327 Toutain, G. 9109 Touzza, G. 7561 Towers, G. H. N. 8999 Townsend, L. R. 7515 Toxopeus, S. J. 7008 Toyoda, I. 4393 Trachev, D. 2566 Trajkovski, V. 6675, 66' Tramier, R. 269 Tran Thanh Van, M. 36 Trappe, J. M. 8373 6675, 6676 Iran Ihanh Van, M. 3638 Trappe, J. M. 8373 Trautmann, W. 3888 Trave, R. 3064 Traverse, R. J. 7773 Travina, O. K. 4975 Travis, R. L. 226 Traxl, V. 3063 Treccani, C. P. 2597, 2781 Treffry, T. 6865 Trefois, R. 4232 Treharne, K. J. 3296 Trejo-González, A. 7764 Trelitskaya, E. V. 3105 Trémolières, A. 6013 Trelitskaya, E. V. 3105
Trémolières, A. 6013
Trenkle, K. 328
Trenkle, R. W. 7987
Trent, J. E. 6292
Treskova, V. S. 7801
Trespeuch, J. 5838
Tressl, R. 2441
Trevett, M. F. 7513, 7514, 7516, 8492, 8493, 8496
Trevisan, L. M. 7273
Tribulato, E. 803
Trifonov, D. 5066, 6658
Trinidad, University of the West Indies 9136
Tripathi, G. M. 426
Tripathi, G. M. 426
Tripathi, R. L. 7250
Tripathi, R. S. 3210, 8463
Trique, B. 3788
Trochoulias, T. 374, 9130 Trochoulias, 7. 374, 9130 Trochoulias, T. 374, 9130 Trocmé, O. 7182 Trogoff, H. de 4811, 7155 Trojánek, J. 2343, 2344, 2367, 5532 5532
Trojánkova, M. 2344
Tromp, J. 1804, 2586, 3417, 6597, 7351
Troncoso, A. 9110
Troncoso, C. 9110
Troncoso, J. 9110
Troncóková, E. 4444, 6801
Troshko, E. V. 3062
Troyan, A. V. 5667
Trpevski, V. 7447
Trüb, C. 2262
Trubnikova, T. I. 5190 Trüb, C. 2262 Trubnikova, T. I. 5190 Truc, M. C. 9065 True, R. H. 8499 Truel, P. 5828 Truelove, B. 6831 Truen, R. D. 7258 Trujillo, G. E. 2021 Trusevich, G. V. 5700 Trushechkin, V. G. 1858, Trushechkin, V. G. 18: 7532, 8511
Truter, S. J. 2961
Trzcinski, T. 4978
Tsai, A. H. 7867
Tsai, S.-D. 5254
Tsai, Y.-P. 2150
Tsakadze, T. A. 5736
Tsalbukov, P. 5502
Tsanava, N. G. 8061
Tsanev, T. 5035, 5036
Tsangas, F. T. 1942
Tsankova, E. T. 5496
Tsao, S. J. 2787
Tsatsaronis, G. C. 253 Tsatsaronis, G. C. Tset, A. A. 6054 Tsettlin, M. G. 8553 Tsekhmistrenko, P. E. 5 Tsekleev, G. 4550, 5339 5106

Tsenov, E. I. 6927 Tsereteli, G. L. 5736 Tsintsadze, A. V. 3281 Tsirkov, I. 688 Tsivindo, A. Z. 2513 Tsonev, D. 1269, 3701, 5936, 6039, 8753 Tsugawa, C. 1757, 1780 Tsukamoto, Y. 2217 Tsumita, M. 2634 Tsunoda, S. 8628 Tsunoda, S. 86 Tsur, Y. 3983 Tsur, Y. 3983
Tsurkamenko, N. G. 6723
Tsurkan, I. P. 3513, 4293
Tsurushima, H. 2914, 6133
Tsvetanov, D. D. 1100
Tsvetkov, R. 7048, 8952
Tsvetkov, V. 4336
Tsvetkova, A. G. 2585
Tsvetkova, N. T. 1923
Tsyplenkov, A. E. 6913
Tszvu, A. L. 8350 Tszyu, A. L. 8350 Tu, C. C. 2151 Tucker, D. P. H. 3108, 3995, 6339 Tudosescu, O. 73-Tueva, O. F. 161 Tugwell, B. L. 66 7341 6651 Tukey, R. B. 950, 4281 Tulbure, I. A. 5867 Tulbure, I. A. Tulemisova, K. A. 679 6792 Tulupova, A. A. 8612
Tulupova, A. A. 8612
Tumanov, I. I. 4310, 6671
Tumanova, E. I. 7613
Tumanova, R. N. 5807, 8486
Tunisia, Institut National de la
Recherche Agronomique Tunisia, Institut National de la Recherche Agronomique, Laboratoire de Viticulture 3561 Tunisia, Institut National de la Recherche Agronomique, Laboratoire d'Arboriculture Fruitière 3981, 4944 Tupkari, S. V. 4773 Tupý, J. 8873 Turetskaya, R. Kh. Turgeon, A. J. 54 Turgeon, R. 5961 Turkey, Turkish 5445, 5446 Phytopathological Society 82.82 Turkmenbaev, B. A. Turkov, V. D. 5158 Turner, D. W. 1539 5191 Turner, D. W. 1539
Turner, I. N. 4148
Turner, M. K. 2739
Turner, N. C. 3712, 4478, 4928, 6923
Turner, P. D. 8168, 9187
Turova, A. D. 3967
Turovskaya, L. A. 5700
Turovskaya, N. I. 2543, 3381
Turovtsev, M. I. 5017
Turovtsev, N. I. 3439
Turquand, E. D. 3872, 3875
Turrell, F. M. 5550 Turrell, F. M. 5550 Tursin, Yu. S. 5534 Tutberidze, B. D. 3101, 5545, 7125 Tutevich, M. T. 5 Tuz, A. S. 5781 Tuza, S. 1679 Tvorus, E. K. 280 Tyagi, B. N. 361 5855 2802 Jyagh, B. N. 361 Tyazhel'nikov, A. D. 924 Tyl, M. 3082 Tyler, K. 8614 Tyurina, E. V. 6283, 8988 Tyurina, M. M. 1774, 8367, 8399 Tzanni, H. 3861 Uchida, M. 3135 Uchytil, L. E. 2298 Uchytil, L. E. 2298 Udayashankar, A. 4666, 9062 Uddin, M. N. 1541, 4833 Udry, V. 1799, 5315 Ueda, H. 2272 Uehara, G. 6374, 8212 Uexkull, H. R. von 3188 Uffelen, J. A. N. van 5216

Uffelen, L. G. van 8751 Ugaz, O. S. 7235 Ugolik, M. 5742 Uhl, N. W. 3953 Uhlinger, R. D. 5414 Uhring, J. 8895 Uittien, J. J. 1676, 1677 UK, Agricultural Development and Advisory Service, South Western Region 3372, 3615 UK, Agricultural Development and Advisory Service, West Midland Region 3347, 3534, 4742, 5885, 6128, 8316, 8583, 8838 UK, Arthur Rickwood
Experimental Husbandry Farm 601 UK, Biochemical Society 6471 UK, British Gladiolus Society UK, Commonwealth Secretariat 4120 UK, Department of Agriculture and Fisheries for Scotland 2485 UK, East Malling Research Station 7489, 8139, 8317, UK, Economic Development Committee for Agriculture 3341 UK, Edinburgh School of Agriculture 3552, 3614, 3871 UK, Efford Experimental Horticulture Station 3373, 3533, 4605, 5884 UK, Fairfield Experimental Horticulture Station 4622, UK, Forestry Commission 6483 UK, Glasshouse Crops Research Institute 3685 Research Institute 3685 UK, John Innes Institute 3346, 3535, 3612, 3832 UK, Kirton Experimental Horticulture Station 598, 732, 733, 1872, 3538, 3610, 7907 193, 4513 UK, Lee Valley Experimental Horticulture Station 6774 UK, Letcombe Laboratory 3521, 5943 UK, Long Ashton Research Station 903, 1856, 1938, 2155, 2330, 2380, 2449 UK, Luddington Experimental Horticulture Station 3371, 3515, 3613, 3833 3515, 3613, 3833 UK, Macaulay Institute for Soil Research 8584 UK, Ministry of Agriculture, Fisheries and Food 270, 866, 1690, 1810, 2835, 3299, 3351, 3369, 4123, 4926, 5050, 5195, 5692, 6186, 7315, 7894, 7905, 8300, 8301 UK, Ministry of Agriculture for Northern Ireland 4172, 4606, 5076, 5154 UK, Mushroom Growers' Association 4119 UK, National Agricultural Advisory Service, East Midland Region 867 UK, National Institute of Agricultural Botany : UK, National Institute of Agricultural Engineering 2487, 2672, 2743, 5752 UK, National Vegetable Research Station 1934
UK, North of Scotland College of Agriculture 1855, 1936, 2153 UK, Pea Growing Research Organisation Ltd. 3611

UK, Rosemaund Experimental

Husbandry Farm 2537,

3040, 3041

928 UK, Rosewarne Experimental Horticulture Station 3834, 4366, 5096 UK, Rothamsted Experimental Station 5153 UK, Royal Horticultural Society 7035 UK, Royal National Rose Society 5470, 5474 UK, Scottish Horticultural Research Institute 3514, 3874, 4365 UK, Society of Chemical UK, Stockbridge House
Experimental Horticulture
Station 529, 1937
UK, Wye College Department Station 529, 1937
UK, Wye College Departme of Hop Research 3954
Ukai, N. 8805
Ulicheva, G. M. 1455, 553
Ulrychová, M. 241
Ul'yanishchev, A. S. 2568
Ul'yanov, A. M. 8415
Ul'yanova, M. S. 5875
Umeda, K. 2136
Umgelter, H. 7885, 7956
Umiel, N. 2138, 2142
Umpelby, R. A. 3958
Umpleby, D. 5470
Undan, R. C. 6884
Underbrink, A. G. 5418
Underbrink, A. S. 997
Unterbolzner, O. 169
Unterbolzner, O. 5169
Unterbolzner, O. 5470
Unterbolzner, O. 5470
Unterbolzner, O. 5470
Unterbolzner, O. 5470
Unt 1455, 5533 Uriarte, J. R. 3679
Uribe, A. 9190
Uribe H., A. 3161, 5618
Uriu, K. 2424, 2630, 4167,
4239, 7424
Urmantsev, Yu. A. 8680
Urueta Sandino, E. 5637
Urushadze, U. D. 3159
USA, American Society for
Horticultural Science, 448 Horticultural Science 448, 3335 USA, Colorado State University 3300, 3357, 3617 USA, Cornell University 5179 USA, Department of Agriculture 899
USA, Hawaii Agricultural
Experiment Station, University of Hawaii 1940, 6130, 6324, 6382 USA, Hawaiian Sugar Planters' Association Experiment Station 9221
USA, Institute of Food and Agricultural Sciences, Agricultural Sciences, Florida University 437, 451, 1530, 2375, 4367, 4945, 5078, 6129, 6383, 6692, 8051, 8585, 8834 USA, Michigan State University, Department of Horticulture 3616 USA, Michigan State University Agricultural Experiment Station 7490, 7601, 8319, 8839 USA, Michigan State University, Department of Horticulture 3348, 3516, 3835 USA, Mississippi Agricultural and Forestry Experiment Station 1706, 1935, 2152, 2433

USA, National Weather Fruit-Frost Service 6335 USA, New Mexico State University Agricultural Experiment Station 3349, 3618, 3836 USA, North American Lily Society 5427, 5428 USA, North Carolina State University Agricultural Experiment Station 6058 USA, Northern Nut Growers Association Inc. 25 USA, Spectral Survey of USA, Spectral survey of Irrigated Region Crops and Soils 599, 600, 790, 791 USA, University of Georgia Agricultural Experiment Stations 8320, 8525 USA, Washington State University 24, 324, 1130, 1315, 5077 Ushiyama, K. 3128 Uslu, İ. 8528 Usman, K. M. 8880 USSR, Orlovskaya Plodovo-Yagodnaya Opytnaya Stantsiya 5699 USSR, Severokavkazskii Zonal'nyĭ Nauchno-Issledovatel'skii Institut Sadovodstva i Vinogradarstva 5700, 5701 Uyemoto, J. K. 470, 5853, 5854, 7684 Uys, D. C. 588 Uys, D. C. 588 Uzcátegui L., C. 8197 Vaadia, Y. 3325 Vacek, M. 5506 Vachun, Z. 2611, 3436, 3468, 5756, 7421, 8427 Vadachkoriya, Ts. T. 3019 Vadhwa, O. P. 4485 Vago, C. 17 Vagt, W. 8376 Vaidyanathan, L. V. 5307, 5308, 5309 Vaintraub, F. P. 4504 5308, 5309 Vajntaub, F. P. 4504 Vajna, L. 2671 Vakar', B. G. 6579 Vakhrusheva, T. E. 2139 Valat, C. 5853 Valdabanit, S. P. M. 500 Valdebenito S., R. M. 5007 Valdivia M., G. 1248 Valencia A., G. 1574, 4055, 9166
Valenzuela, J. 535, 8494
Valenzuela, L. 8991
Valette, R. 1151
Valikhanova, G. Zh. 8722
Valk, G. G. M. van der 2257, 3435 9166 Valk, G. G. M. van der 5436, 8902, 8903 Vallejos, W. E. 4518 Valmayor, R. V. 3210 Valpuesta, M. 8112, 9111, Valpuesta, M. 8112, 9111, 9112
Valuïko, G. G. 5875
Valutskaya, A. H. 6283
Van Dam, J. 8913
Van, M. T. T. 3638
Vanachter, A. 8779
Vančura, V. 189
Vandercook, C. E. 1508
Vandercook, C. E. 1508
Vanderhoef, L. N. 226
Vanderweyen, A. 4811
VanDerWoude, W. J. 2951
Vanek, G. 577
Vaněk, V. 2814
Vang-Petersen, O. 3402, 65:
Vanhaelen, M. 3059
Vanhouche, P. 4325, 5822
Vanin, I. I. 44, 1048
Vanluchene, I. 4673
Vanoni, F. 2781
Vanwezer, J. 7527
Varadharajan, G. 853
Varder V. 2006 9112 3402, 6553 Varadharajan, G. 853 Vardar, Y. 3096, 9067 Vardaro, P. M. 3904, 7864 Varela de Vega, A. 9128

Vargas, G., E. 5620 Vargas, J. M., Jr. 2266, 6196, 6198 Vargová, E. 236, 2096 Varley, G. C. 2501 Varley, G. C. 2501 Varma, A. 7086 Varma, G. C. 5582 Varma, I. D. 7237 Varna, V. E. 4251 Varnaite, R. 630 Varner, J. E. 2063 Varshney, I. P. 353 Vartanian, N. 8985 Vartianan, N. 8985 6308, 6309 Vartanian, N. 8985 Vartija, R. 2738 Vasak, V. 5427 Vasconcellos, E. F. C. 5296, 5297 Vasev, A. 8438 Vasev, V. 2725 Vasev, V. 2725
Vashchinskaya, N. V. 4215
Vashistha, R. N. 1194
Vasilcik, E. M. 4128
Vasilev, V. 6070
Vasilev, V. N. 458, 2536, 3363
Vasil'eva, L. I. 8450
Vasil'eva, V. N. 4976, 6014
Vasin, V. I. 8901
Vas'koyski M. D. 2003 Vasin, V. I. 8901 Vas'kovskiř, M. D. 2003 Vasseur, J. 7624, 7726 Vassilev, G. 2799 Vassilev, G. N. 3744, 6803 Vasudeva, N. 8158 Vasyukova, V. A. 654 Vasyuta, G. G. 6269 Vater, J. 1836 Vaughan, J. G. 4736, 5488 Vávra, M. 2511, 4254, 8455 Vazhenina, Z. G. 2545 Vaziri, C. M. 2468 Vázquez B., V. 4563 Vazquez Roncero, A. 2427 Vázquez B., V. 4563 Vazquez Roncero, A. 2427 Vazyula, A. G. 7499 Vedantham, T. N. C. 4765 Vedder, P. J. C. 3824 Vedder, P. J. C. 262, 699, 6121, 7827 Veech, J. A. 2120 Veen, H. 3900, 4940 Veerman, J. A. 4434 Vega, E. 2724, 4258 Vega, M. R. 7748 Vegetti, G. 1169 Vegh, I. 8601 4765 Vegetti, G. 1109 Vegh, I. 8601 Véghelyi, K. 6611, 7328, 7429 Veihmeyer, F. J. 4160 Veinbrants, N. 966, 974 Veitch, G. J. 7936 Vekshin, B. S. 8045 Velasquez, F. 8131 Velasquez, F. 5131 Velasquez O., J. 780 Velde, G. V. 6286 Veldhuis, M. K. 2412 Velev, B. 1266, 5211, 5343, 8740 8740
Vélez, A. 9265
Vélez Angel, R. 5666, 8154
Velez, G. C. de 6884
Veliath, J. A. 2131
Velichkova, S. 498
Veliksar, S. G. 1112
Veliky, I. A. 8591, 9025
Velkov, L. 985
Velkov, V. 506, 2566, 3466
Vello, F. 3180
Vendrig, J. C. 8986
Venekamp, J. H. 8701
Venezuela, Estación
Experimental de Cacao Experimental de Cacao Venkata Ram, C. S. 8272 Venkataramani, K. S. 8120 Venning, F. D. 9145 Venstrom, D. W. 5368 Vent, L. 1420 Venter, F. 144 Ventura, J. 3645, 4525 Venupopal, G. 8048 Venugopal, G. 8048 Verboom, H. 7875 Vercesi, B. 660, 5291 Verde, G. 8103 Verderevskaya, N. D. Verderevskaya, T. D. 7554

Verderevskii, D. D. 5825 Verdonck, O. 4689, 5419, 7291 Verdu, J. 3139, 8088 Vereshchagina, I. V. 4613 Vergnano Gambi, O. 5726 Vergniaud, P. 1258 Verhaegh, A. P. 2105 Verheij, E. W. M. 340 Verhoeff, K. 1296 3401, 7354 Verhoyen, M. Verlaat, J. G. 4232 7617, 8714 Verlind, A. L. 2245 Verma, A. L. 224 Verma, A. K. 888 Verma, A. N. 143, Verma, J. P. 3316 Verma, V. S. 3086 Vernet 4027 8881 143, 1011 3086, 3966 1547 Vernon, A. J. Verschuur, A. F. C. 887 Versteeg, W. 7923 Verwer, F. L. J. A. W. 5801, 7354 Verzilov, V. F. 920, 6987 Veselova, E. P. 1205 Veselova, T. V. 6727, 8508 Veselovskiĭ, I. A. 5316 Veselovskiĭ, V. A. 6727, 8508 Veselý, Z. 2367 Vessey, J. C. 86 Vest, G. 6885 8691 Vest, G. 6885 Vestrheim, S. 5082 Větvička, V. 4705 Veyrat, G. 7301 Viard, P. 4227 Vickery, H. B. 1673 Vickery, L. E. 162 Vidaver, W. 136, 1976 Videnov, B. 7372, 7386, 7413 Vidhyasekaran, P. 6887 Vidović. O. 8674 Vidović, O. 8674 Viehmeyer, G. 5414 Vieira, C. 172, 1208, 3694, 3697, 4467, 5235, 5262, 8671 Viel. P. 1000 Vieria da Silva, J. 8985 Vieru, I. 2 Víg, P. 4946 Vigl, J. 6560 Vig. J. 6560
Vigorov, L. I. 4954, 8446
Viil', Yu. 2025
Vijayan, K. M. 4053
Vijver, L. M. van der 3003
Vijverberg, A. J. 7878
Vik, J. 2738, 3760, 6027
Vikmane, M. Ya. 5990
Vikulina, L. A. 6074
Vilardebo, A. 827, 6387, 9133
Vilchez, M. 3014
Viljoen, N. M. 3232, 8162
Villalon, B. 2847
Villegas, C. N. 5365
Villiers, E. A. de 6373, 7168
Villiers, T. A. 307, 5181
Villiors, T. A. 813, 8107
Vincent, J. C. 6395
Vincent, L. E. 813, 8107
Vincinaux, C. 6942
Vine, B. H. 3201 Vincent, L. E. 813, 8107 Vincinaux, C. 6942 Vine, B. H. 3201 Vines, H. M. 1389, 4249, 5466 Vinogradov, A. V. 1762 Virden, J. 3047 Virdi, B. V. 1054, 1055 Virgin, H. I. 5687 Viro, M. 8308 Vis, E. G. 1515 Visagie, T. R. 5060 Vis, E. G. 1515 Visagie, T. R. 5060 Vishanska, Y. V. 5069 Vishanska, Yu. 985 Vissecher, H. R. 7829 Visser, C. J. 8417, 8452 Visser, T. 7312, 7433 Vissia, R. 3313 Viste, K. L. 3334 Viswanadham, R. K. 8048 Viswanath, K. R. 8145 Viswanath, S. 6251, 6253 8048

Author Index Viswanathan, N. 3076 Viswanathan, P. R. K. 5622, Visweshwara, S. 4857 Visweswariah, K. 1534 Vitagliano, C. 2421, 2425 Vitanov, M. 4523, 6655, 7329, 7469 Vitkov, M. 171 Vitkovskii, V. L. 1713, 4154, 4299 Vittori, V. 3472 Viyayan, K. P. 300 Vizer, B. 7323 Vlach, E. 1017 Vlach, E. 1017 Vlahos, M. V. 8530 Vlakhova, M. G. 2210 Vlašić, A. 6616 Vlasishin, V. P. 4974 Vlasov, Yu. I. 7792 Vlasyuk, P. A. 5284, 6005 Vlček, F. 4451, 5213, 5881 Vlček, F. 4451, 5213, 5881 V"lchev, S. 3796 V"lchev, V. 1896, 2711, 6717 Vlitos, H. J. 5687 Vlora, A. K. 551 Vnuchkova, V. A. 2857 Vodenicharova, M. 6896 Videnicharova, M. 6896
Vodericharova, M. 6896
Voderet, A. 3574
Voeller, J. E. 1044
Vogel, G. 1987, 5923
Vogel, J. 7301
Vogel, R. 5543
Voigt, E. 580, 4351
Voïtovich, K. A. 5825
Volcani, Z. 3776
Vol'de, M. S. 2561
Volk, G. M. 2174, 4670, 6193
Volken, P. 3815
Volkova, S. A. 1431, 3051
Vollmer, C. M. 8642
Volkova, S. A. 1431, 3051
Vollmer, C. M. 8642
Vollosovich, A. G. 2333, 5531
Volodina, E. V. 4312
Volosky Y., E. 258, 3756
Vol'vach, P. V. 4211, 6615, 6618 6618 Vondráček, J. 3416, 3438, 3441, 3446 Vonica, A. 8478 Vonica, I. 8478 Vonk-Noordegraaf, C. 6231, Vonnahme, P. 9203 Vongt, S. 8606 Vora, V. C. 6463 Vorob'ev, N. E. 2811 Voronchikhina, Z. N. 2918 Voronkova, F. V. 6488 Voronovich, D. Ya. 5115 Vos, A. 7926 Vos, H. 5442 Vos, N. P. de 6180 Vöskresenskaya, N. P. 1673, 8712 6990 Voskresenskaya, N. P. 16/3, 8712
Voss, G. 3298
Voth, V. 1879
Votický, Z. 9013
Vötsch, J. 8355
Vovlas, C. 4390
Voznesens'kiĭ, A. M. 5865
Vraný, J. 6038
Vreman, H. J. 219
Vrie, C. van de 6596, 8331
Vries, D. P. de 7433
Vries, F. W. de 4912
Vries, F. W. T. P. de 3296
Vroomen, C. O. N. De 2228
Vrzalová, J. 3054
Vučic, N. 6515
Vuittenez, A. 497, 5853
Vujanić-Varga, D. 6544
Vulsteke, G. 167, 1160, 5252, 8672, 8692
Voong Huu Haï 406 8712 8672, 8692 Vuong Huu Haï 406 Vuurst-De Vries, R. G. Van der 1804 Vygodskaya, N. N. 6487 Vyskrebentseva, È. I. 2778 Vyskvarko, G. G. 6757 Vysokos, T. Ya. 197

W., D. J. 1658 Waard, P. W. F. De 6479 Wacquant, C. 6698 Waddington, D. V. 3893 Wade, D. R. 1361 Wade, E. K. 8392 Wadhi, S. R. 3243 Wade, E. K. 8392
Wadhi, S. R. 3243
Wadhwani, A. M. 860
Wadsworth, G. A. 718
Wager, H. G. 5290
Wager, V. A. 2172
Waggoner, P. E. 4
Wagner, H. 2371
Wahab, F. K. A. El 2438
Wahab, S. M. A. 3049
Waheed, A. 666
Wahlberg, I. 2340
Wain, R. L. 1704
Waines, J. G. 1356, 6168
Wainstein, P. 7303
Wainwright, S. H. 5408
Waissel, Y. 2369
Waister, P. D. 1057, 1877, 5808
Waks, J. 1506, 7152
Waldron, J. C. 8191
Wali, Y. A. 449, 2439, 2440 Waldron, J. C. 8191
Wali, Y. A. 449, 2439, 2440
Walker, B. 9265
Walker, J. T. 2987
Walker, L. A. 1542
Walker, S. E. 2853
Walker, W. F. 4744
Walker, W. M. 5997
Walkey, D. G. 4184
Walkinshaw, C. H. 4380
Walkof, C. 8766 Walkof, C. 8766 Wallace, A. 1480, 2028, 6479 Wallace, A. 1480, 2028, 6479
Wallace, D. H. 188
Wallace, J. M. 2390
Wallace, R. F. 2125
Wallen, V. R. 179
Waller, G. D. 2088
Waller, G. R. 4754, 6162, Waller, G. R. 4754, 6162, 6995
Waller, J. M. 1575, 4862
Waller, J. M. 1575, 4862
Wallerstein, I. 4807, 8083
Wallher, S. J. 8956
Wallin, A. 7819
Wallis, F. M. 8608
Wallis, I. W. 3872, 7011
Wally, Y. A. 449, 2439, 2440, 2842, 8756
Walmsley, D. 4423
Walton, D. C. 2803, 2804
Walton, T. 5804
Wandås, F. 2738
Wang, C. Y. 1841, 1842, 5791, 6648 Wang, C. Y. 1841, 1842, 5/91, 6648
Wang, D.-I. 1158
Wang, H. H. 8822
Wang, S. Y. 1842, 5767, 6648
Wang, Z. N. 9257
Wanic, D. 968
Wanjari, K. B. 5966
Wanner, H. 4863, 4867
Wara-Aswapati, O. 6850
Ward, E. W. B. 1268, 5324
Ward, G. M. 7790
Ward, P. F. V. 3650
Ward, R. J. 3669
Warden, J. 8927
Wardle, G. A. 5001
Wardowski, W. F. 4010, 4017
Wargadipura, R. 4762
Warnaars, B. C. 2054
Warren, J. M. 1296
Warsito, N. T. 2463
Warsito, N. T. 2463
Warsito, N. T. 6422
Wassel, G. M. 1399, 3079
Wassenaar, L. M. 3553, 7524, 7525 6648 7525
Wassink, E. C. 4640
Wastie, R. L. 1078, 6423, 6424, 8182
Watanabe, J. 5577
Watanabe, M. 3057
Watanabe, T. 1698, 2634, 2851, 4936, 5250, 5982
Waterman, P. G. 2361
Waters, W. E. 1376, 3897, 7027, 8852, 8931
Waterworth, H. E. 1745, 5465

Watson, A. G. 3316 Watson, D. P. 7962 Watson, J. 5796 Watson, R. 6236 Watson, T. 2942, 7794 Watt, K. E. F. 2501 Watt, W. B. 7724 Watt, W. B. 7724
Watters, E. D. 4389
Watterson, J. C. 5218
Wave, H. E. 4989
Wavhal, K. N. 8570
Way, M. J. 2501
Way, R. D. 7335
Wayland, J. R. 5226
Wearing, C. H. 147
Weathers, L. G. 363, 1168, 2387, 4635
Weaver, G. M. 5696
Weaver, R. J. 592, 2729, 7280, 8567
Weaver, W. H. 3702 Weaver, W. H. 3702 Weaving, A. J. S. 1583 Webb, J. A. 5961 Webb, M. J. W. 1984 Webb, M. J. W. 1984 Webb, R. A. 1678, 6697 Webb, R. E. 3774 Weber, D. J. 2616, 4928 Weber, F. 7443 Weber, O. 1118 Weber, P. G. A. 1684, 5156, 5157, 6775 Webster, B. D. 3673, 5259, 6854 6854 Webster, D. H. 5694, 5695, 5696 Webster, H. L. 680 Webster, I. 5422 Webster, J. M. 2484, 3807, Webster, W. J. 552
Weder, J. 552
Weder, J. 552
Wee, Y. C. 7219, 9196, 9197
Weerakoon, S. N. 6465
Weering, J. J. van 4069
Wehrmann, J. 7789
Weidensaul, T. C. 1680
Weidinger 2493
Weier, B. 36, 37, 38
Weigle, C. G. 5587
Weigle, J. L. 2128, 3680
Weihing, J. L. 644, 722
Weijden, G. J. M. van der
7016
Weijman, A. C. M. 4396 6090 Weining, J. L. 644, 722
Weijden, G. J. M. van der
7016
Weijman, A. C. M. 4396
Weiler, N. 1873, 7537
Weiler, T. C. 1348
Weinbaum, S. A. 3392
Weinberger, P. 7689
Weinstein, B. 8032
Weir, B. L. 1968, 5214
Weischer, B. 5853
Weiser, C. J. 2587, 5313,
7049, 7352, 7353, 8353
Weisleder, D. 4761
Weiss, A. 8529
Wejnar, R. 1129
Welch, H. J. 7035
Welch, N. C. 3636
Weldinger, G. 6496
Weldt, E. 8960
Welker, W. V., Jr. 2685, 2827
Wellensiek, S. J. 7745, 8726
Welling, H. 6496
Welling, H. 6496
Welling, H. 6496
Wellisch, P. 1679
Wellman, D. 8997
Wells, G. N. 3753
Wells, J. M. 8706
Welsh, M. F. 8388, 8390
Welte, E. 1570
Weltzien, H. C. 3316
Wendt, T. 5725
Wenham, H. T. 5859
Wenkam, N. 2435
Wensley, R. N. 5965
Werckmeister, P. 311
Werminghausen, B. 8850
Werth, K. 464 Werminghausen, B. 8850 Werth, K. 464
Wertheim, S. J. 1729, 1792, 4960, 7405, 7461, 8357, 8405 Wesenberg, B. G. 4709 Wesolowski, L. J. 2841

West Indies, Central Sugar Cane Breeding and the Barbados Sugar Cane Variety Testing Station Variety Testing Station 4080
West, S. H. 1647, 4088
Westaway, S. J. 4134
Westcott, D. E. 6105
Weste, H. L. 5871
Westermann, D. T. 8290
Western Samoa, Department of Agriculture, Forests and Fisheries 7602, 8122
Westigard, P. H. 8467
Weston, G. D. 5360, 8792
Weststeijn, G. 6087, 7795
Westwood, M. N. 2657, 4233
Wetherbee, P. J. 3668
Wettasinghe, D. T. 7265
Wetzel, H. 3886
Wetzold, P. 4567
Whalley, D. N. 1401
Whalley, W. M. 8719
Wheatley, G. A. 5374
Wheaton, T. A. 2410, 4814
Wheeler, B. E. J. 7013
Whelan, E. D. P. 1196, 1991, 8656 4080 White, D. C. 866
White, D. S. 4719
White, A. G. 6831
White, B. A. 6697
White, B. A. 6697
White, D. 5976
White, D. C. 866
White, J. C. 2800, 5102, 5909
White, J. M. 2768, 2868
White, J. W. 2950, 4128, 4659, 4660, 6983, 8857
White, R. 2349
White, T. K., Jr. 3192
Whitehead, A. G. 1254
Whitehead, V. B. 4259, 5812
Whitehead, V. B. 4259, 5812
Whitehead, J. O. 3127, 3132, 9094 8656 9094
Whitfield, F. B. 4826
Whitford, P. 3959
Whiting, D. A. 7955
Whiting, F. M. 372
Whitman, W. F. 9282
Whitmore, F. W. 5039
Whitney, J. D. 3137
Whitney, P. J. 4488
Whittaker, D. E. 24288
Whittaker, D. E. 24288
Whittenore 9094 5039 Whittaker, D. E. 2428 Whittemore, H. D. 8260 Whitten, M. J. 2501 Whittingham, C. P. 3296 Whittington, C. M. 1990 Whittington, W. J. 4556 Whitwell, J. D. 1161, 3659, 3669 Wi, H. 2432 Wickremasinghe, R. L. 6465, 6467 6467
Wicks, G. A. 7702
Wickstrøm, A. 7908
Widderich, W. 2497
Widholm, J. M. 2140
Widmer, R. E. 7893, 8858
Widodo, R. 6034, 6744
Wiebe, H.-J. 7644, 7659, 8293
Wiebe, J. 7558, 7679
Wiede, K. 2969
Wiedeman R. 6278 Wiedemann, R. 6278 Wiedenhoff, H. 8331 Wiedenhoff, H. 8331
Wiederkehr, G. H. 8575
Wiedhopf, R. 8028
Wieland, H. 8306
Wienberg, D. 1876
Wiermann, R. 7911
Wiersma, C. 2164
Wierszyłłowski, J. 5742
Wightman, F. 196, 250, 251, 2029, 2127
Wijshoff, J. 6705
Wiksplöff, J. W. 6706
Wikesjö, K. 3681, 3682
Wilbur, W. 1020
Wilcox, G. E. 1136, 3795, 4562, 4584
Wild-Altamirano, C. 7764 Wild-Altamirano, C. 7764

Wild, B. L. 3428, 8410 Wildbolz, T. 1766 Wilde, R. C. de 3335 Wildes, R. A. 8308 Wilding, N. 5956 Wilding, N. 5956
Wildung, D. K. 7352, 8353
Wilen, B. O. 4127
Wilfret, C. J. 6163
Wilfret, G. J. 7005, 7009, 8855
Wilhelm, H. 6849
Wilhelm, S. 1886, 3325
Wilken, L. 6303, 8029
Wilkes, J. M. 8676
Wilkins, C. K. 4908
Wilkins, H. F. 3870, 4658, 7049 Wilkins, H. F. 3670, 4636, 7049
Wilkins, M. B. 8920
Wilkinson, B. G. 8318
Wilkinson, J. F. 304
Wilkinson, J. F. 304
Wilkinson, R. E. 2643
Wilkinson, R. E. 2643
Wilkinson, R. E. 5887
Will, A. G. K. 5887
Will, H. 865, 6150, 6219, 8870
Willam, A. 5383
Willaman, J. J. 9015
Willert, D. J. von 2941, 4678
Williams, R. D. 1140
Williams, B. J., Jr. 5485
Williams, E. B. 3374, 5981
Williams, J. A. 7189
Williams, J. B. 1156, 1187, 2016 7049 2016
Williams, J. H. 3299, 5163
Williams, J. I. 8917
Williams, J. M. 1564
Williams, J. R. 8237
Williams, J. R. 8237
Williams, M. W. 3425, 4281, 5000, 5710, 8384, 8409
Williams, N. H. 312, 4680
Williams, P. H. 1985, 2760, 5218 5218
Williams, P. M. 8448
Williams, R. D. 1042
Williams, W. A. 4
Williams, W. T. 5754
Williamson, B. 5459
Williamson, R. E. 2775
Williamson, R. E. 2775 Williamson, R. B. 3459
Williamson, R. E. 2775
Willigen, J. van 8505
Wills, R. B. H. 487, 898,
1544, 1793, 1794, 1797,
6594, 7414, 8418
Willson, K. C. 7267
Willuhn, G. 1424, 2353, 2354
Wilson, B. B. 7164
Wilson, B. J. 648
Wilson, D. M. 5358
Wilson, F. 4139
Wilson, F. 4139
Wilson, J. F. 9009
Wilson, J. F. 9009
Wilson, K. A. 7723
Wilson, K. I. 8291
Wilson, K. A. 2618
Wilson, M. 5332
Wilson, M. 5332
Wilson, R. H. 187
Wilson, R. H. 187
Wilson, W. C. 3147, 3148,
4010 4010 Winder, J. A. 5612 Winfield, A. L. 2260 Winfield, P. J. 216 Winkels, H. 1687 Winkler, H. 6562 Winoto S., R. 6091, 7977 Winsor, G. W. 1325, 4121, 6910 6910 6910
Winter, J. A. T. de 4664
Winter, K. 8930
Winters, H. F. 5627
Wirth, A. 995, 5059, 7348
Wiseley, D. K. 2293
Wiseman, J. S. 3661
Wiskich, J. T. 148, 149
Wismer, C. A. 4097, 6431
Wiśniewska, J. 8407
Wisniewski, W. 3060, 3061, 6318 6318 Witcher, W. 2995 Witt, J. 1707 Wittenbach, V. A. 2631 Wittmann, O. 7092 Wittwer, S. H. 4406

Wodzicki, K. 2448 Woess, F. 7018 Wohlpart, A. 8592 Wolanski, B. S. 1373 Wolf, P. 6781, 8976 Wolfe, T. A. De 3987 Wolfram, B. 4234 Wollman, H. 7989 Wolstenholme, B. N. Wolsternolline, B. N. 1057, 3501, 4300, 7164 Wolting, H. G. 7003 Woltz, S. S. 2860, 6918, 6972, 7006, 8862 Won, C. N. 475 Wong You Cheong, Y. 4887 Woo, L. K. 1444 Woo, S. K. 6522 Woo, Y. K. 4881 Wood, A. V. 5081 Wood, A. V. 5081 Wood, B. J. 5636 Wood, F. A. 2925 Wood, G. A. 472, 7474 Wood, G. W. 536, 6685 Wood, M. B. 3822, 7638, 7645 Wood, R. A. 409, 411, 7249, 7259 Wood, R. A. 409, 411, 7249, 7259
Wood, R. F. 7035
Wood, R. F. 7035
Wood, R. K. S. 4928, 7705
Woodbridge, C. G. 3493, 5932, 8465, 8863
Woodcock, D. 7388
Woodham, R. C. 575, 5853
Woods, M. J. 240, 7606
Woodward, J. R. 548, 3558
Woolhouse, A. R. 7921, 8918
Woolley, V. A. 1432
Wooltorton, L. S. C. 5934
Workman, R. B. 5919
Worley, J. F. 3720, 4726
Worley, R. E. 1036, 1845, 2653, 3502, 7464, 8473
Worraker, E. 3398
Worthen, L. R. 5880
Worthington, J. T. 3434
Woude, W. J. Van Der 2951
Wragg, S. R. 6654
Wrazidlo, W. 6276
Wredin, A. 115
Wright, A. N. 615, 7302
Wright, E. M. 4496
Wright, S. T. C. 3296
Wright, W. T. 2076, 8515
Wrigley, J. W. 747, 7936
Wu, C. T. 429
Wu, L.-C. 7825, 7828
Wu, M. H. 5652
Wu, M. T. 2070, 4485, 6104, 7326, 8803
Wu, W.-N. 2349, 2370
Wucherpfennig, K. 3600 Wu, W.-N 2349, 2370 Wu, W.-N 2349, 2370 Wucherpfennig, K. 3600 Wuchner, A. 3755 Wuest, P. J. 3829, 4601, 6956 Wuidart, W. 8165 Wunderlich, A. 1917 Wünsch, A. 144, 4743 Wurziger, J. 4062 Wutscher, H. K. 6332, 9089 Wyatt, I. J. 4602 Wyk, B. J. van 5640 Wylie, W. D. 7390 Wyse, D. 8684 Wylie, W. D. 739 Wyse, D. 8684 Wysoki, M. 7459 Xafis, C. 888 Aatis, C. 888 Xiloyannis, C. 83 Yablonskiř, E. A. 3479 Yadav, J. S. 2707, 6718 Yadav, J. S. P. 8638 Yadav, S. N. 2980 Yadav, T. D. 3229 Yadav, T. D. 3229 Yadava, R. B. R. 1535 Yadava, U. L. 1777, 4995 Yagi, M. 2430 Yagita, H. 8451 Yakara, H. 2217 Yaklich, R. W. 5988 Yakovleva, V. A. 4701 Yakovuk, V. A. 6635 Yakushev, V. I. 1740 Yakuwa, T. 2080, 8735 Yamada, M. 1780

Yamada, S. 2389, 3124, 3151, 4799 Yamada, Y. 4578 Yamagouchi, M. 5303 Yamamoto, K. 6453 Yamamoto, M. 2430 Yamamoto, M. 2430 Yamamoto, R. 2822 Yamamoto, Y. 5687 Yamanaka, H. 8800 Yamato, H. 9093 Yamauchi, T. 3005 Yanagawa, H. 4517 Yanagisawa, I. 3068 Yanase, M. 7140 Yanazawa, T. 6022 Yang, C. B. 674, 6522, 6834, 8667 Yang, S. 9243 Yang, S. 9243 Yang, S. F. 967, 2590, 6591 Yang, S.-K. 4880 Yang, T. C. 3698 Yang, T. C. 3698 Yanin, G. I. 565 Yankulov, Ĭ. 6288, 6289 Yanyshka, A. 5881 Yaraguntaiah, R. C. 8017 Yarbobaev, N. D. 6336 Yaroshenko, B. A. 4271 Yaroslavets, G. D. 1386 Yaroslavtseva, N. I. 4194 Yaroslavtseva, Z. P. 3909 Yaroslavtseva, Z. P. 3909 Yarwood, C. E. 5251 Yaseen, M. 4430 Yashchenko, N. P. 2229 Yashnik, K. Ī. 4993 Yasnosh, V. A. 7146 Yassin, A. M. 5346 Yasunobu, Y. 2730, 3169 Yates, G. J. E. 1387 Yates, M. J. 2347 Yates, R. A. 1652, 1653, 8256, 9265 9265 Yatsenko, A. M. 6736 Yatsyuno, A. I. 3967 Yau, C.-K. 5382 Yau, C.-K. 5382 Yavorskaya, T. K. 7743 Yaw-Pan Chang 5453 Yeager, J. 524 Yeatman, J. N. 3434 Yee, W. 5585 Yatsyuno, A. I. Yih-Ming Chen 4482 Yih, R. Y. 3334 Ylimäki, A. 6195 Ylimäki, A. 6195 Yogaratnam, N. 5642 Yokoi, M. 5460 Yokomizo, H. 7140 Yokosawa, R. 7654 Yomo, H. 5992 Yoneyama, S. 1999 Yoo, K. C. 1203 Yook, C. S. 1446, 2304, 3067, 5519 5519
Yoon, C. J. 952
Yoon, C. J. 952
Yoon, S. C. 6384
Yoshida, K. 2625, 2742
Yoshida, R. 6719
Yoshida, S. 1673
Yoshikawa, H. 7791
Yoshimura, K. 2651
Yoshizaki, M. 7768, 8080
Youdeowei, A. 2443
Youm, D. Y. 1367
Young, K. 4158
Young, L. M. 335 Young, K. 4158 Young, L. M. 335 Young, R. 2407 Young, R. E. 7176 Young, T. W. 5631, 5632, Young, 1. W. 5651, 5632, 7946
Youngner, V. B. 738
Younos, C. 3949, 3950
Yousef, M. 2890
Yousef, R. T. 4770
Youssef, M. 6470
Ystaas, J. 2489
Yu, I. C. 544
Yu, S. J. 2305, 2313
Yu, T. J. 6834, 8667
Yu, T. Y. 1367
Yugoslavia, Kmetijski Inštitut
Slovenije 3350, 3517, 3619
Yukhananov, D. Kh. 3967
Yuki, W. 4797
Yuldasheva, L. M. 5203
Yumoto, T. 6917 7946

Yun, H. T. 728 Yun, J. K. 1029 Yunis, H. 3808 Yupraphat, T. 7104 Yurchenko, V. V. 5158 Yurina, O. V. 5954, 7673 Yurku, A. I. 6757 Yusufov, A. G. 1320 Yusufov, A. G. 1320 Zabbia, A. J., Jr. 655 Zabiyako, V. O. 6722 Zabluda, G. V. 7117 Zabrosaev, V. D. 3430 Zacha, V. 6159 Zadrazil, F. 6124 Zadražil, F. 6958 Zadrazil, W. 407 Zafar, A. M. 2809, 6886 Zagaja, S. W. 67, 7333, 8346 Zagarto, A. G. 8652 Zagorcheva, L. 3651 Zahara, M. 1994 Zaher, M. A. 29, 366 Zahn, F.-G. 996, 997, 7428, 8440 Yusufov, A. G. 1320 Zaidova, K. A. 5713
Zaitschek, D. V. 6314
Zakari, I. 5599
Zakharieva, T. 6674
Zakharova, A. A. 193
Zakharyan, V. S. 6647
Zaki, A. Y. 3049
Zaki, M. M. 6640
Zakotin, V. S. 2569
Załęska, Z. H. 8685
Zaletaeva, Yu. 293
Zal'kaln, A. A. 4440
Zal'tsfas, A. A. 3951
Zambia, Department of
Agriculture, Research
Branch 7284, 8144, 8586,
8587 8440 8587 Zandvoort, R. 7850 Zankov, Z. 1088, 1896, 1897, 6717 Zanon, A. 8810 Zanutto, G. 6244 Zanutto, I. 3855, 5479, 6244 Zapata, A. 727 Zapata, A. 727 Zaprometov, M. N. 3282, 6308 Zarkua, M. D. 3019 Zarnadze, D. N. 3266, 9274 Zaske, J. 5512 Zatykó, I. 7371 Zatykó, J. 6662 Zatykó, J. 6662 Zatykó, J. M. 6678 Zatyko, J. M. 6851 Zauberman, G. 358, 1465 Zawadzka, Z. 8897 Zaziąbł, F. 8398 Zazzerini, A. 3805 Zderkiewicz, T. 8980 Zdorov'eva, E. N. 1431, 3857 Zdruĭkovskaya-Rikhter, A. I. 7127
Zeck, W. M. 2394
Zee, S.-Y. 3163
Zeeman, A. S. 6743
Zeeuw, D. de 4124
Zehler, E. 7788
Zeid, F. A. 2894
Zeid, M. 201
Zeiger, D. C. 4203
Zeleneva, I. V. 1227, 2062
Zelengur, N. E. 7082
Zelenka, L. P. 1141
Zelenskii, M. A. 3420 7127 Zelenskii, M. A. 3720 Zelitch, I. 4 Zembery, A. 2716 Zemlyanov, V. N. 7340, 7345 Zende, G. K. 8216, 8222 Zengerle, K. H. 2752, 5922 Zenon-Roland, L. 8590 Zentmyer, G. A. 3316 Zelenskii, M. A. 3420 Zenon-Roland, L. 8590
Zentmyer, G. A. 3316
Zernov, N. P. 5084
Zeroni, M. 1811, 2636
Zettler, F. W. 2974, 2975
Zevallos, A. C. 9142
Zeven, A. C. 1351
Zeyen, R. J. 8962
Zhdanov, V. N. 5699
Zhdanov, V. V. 1861
Zhecheva, Zh. 3651

Author Index Author Index
Zhecheva, Zh. D. 4417
Zhelev, D. 2737
Zhelev, I. 4192, 4193
Zhelev, I. 4192, 4193
Zhelev, V. 6494, 8302, 8303
Zhestyanikova, L. L. 4520
Zhidebaev, K. Zh. 5720
Zhitkov, V. S. 905
Zhmurko, L. A. 59, 7417
Zholkevich, V. N. 6857
Zhuchenko, A. A. 8288
Zhukov, A. S. 5701
Zhukova, L. A. 112
Zhukova, N. V. 1206
Zhukova, R. V. 5701
Zhulavskaya, M. N. 5717, 5741 2nthayskaya, Nr. Nr. 5741
Zhulid, L. P. 5701
Zhulya, V. M. 4307
Zhuravleva, L. M. 18
Zidan, Z. 1479
Zied, E. N. Abou 9019
Ziegler, W. 4386
Ziehl, O. A. 2088
Zieslin, N. 3920, 7949
Zika, J. 3421
Zilai, J. 6720, 6766
Zilberstein, A. 2201
Zilberstein, Y. 7900
Zilkha, M. 3763
Zimmer, K. 5484, 7951, 7952, 8885, 8932
Zimmerman, E. 739 5741 Zimmer, R. 5484, 7951, 7952, 8885, 8932
Zimmerman, E. 739
Zimmerman, R. H. 4725, 5689, 6525, 6526
Zimmermann, F. J. P. 8671
Zink, F. W. 4412
Zinkernagel, V. 2206, 3325
Zinzi, R. 5845
Zioni, E. 4337
Zito, F. 3365
Zitter, T. A. 5894, 5912, 6040, 6041
Ziv, D. 3632, 4037, 4040
Ziv, M. 6174
Živanović, V. 2519, 2522
Zobel, R. W. 3814
Zobenko, L. P. 1411
Zoborský, I. 7096
Zocca, A. 977, 2531, 4267, 6627
Zoeten, G. A. de 2816, 5281 Zocca, A. 977, 2531, 4267, 6627
Zoeten, G. A. de 2816, 5281
Zohren, E. 7094
Zoloedova, S. F. 7066
Zolotovich, G. 338, 3952
Zonev, D. 6895
Zootra, D. 3367, 3776
Zotov, V. V. 7577, 8564
Zouaghi, M. 5208
Zsadon, B. 5528, 6284
Zubarev, F. P. 7111
Zuccardi, R. B. 9244
Zucconi, F. 4825
Zuck, D. A. 3946
Zucker, M. 1673
Zueva, N. P. 2675
Zuluaga Cardona, I. 389
Zuluaga Cardona, I. 389
Zuluaga, V. J. 4055
Zwack, F. 342, 6279, 9010
Zwar, J. A. 8044, 8640
Zwaving, J. H. 1425
Zwet, T. van der 4275, 5049, 5786, 6637
Zwick, R. W. 8467
Zwicky, P. 3577
Zych, C. C. 8491
Zykova, T. I. 6580
Zyl, E. J. van 8452
Zyl, H. J. van 4282, 8322
Zylka, D. 64
Zymalkowski, F. 7104



SUBJECT INDEX

Abgrallaspis cyanophylli, biological control,
avocado pests 3983
Absinth diseases, Verticillium dahliae 4739 Absinth plant
ascorbic acid, content, soil types 6246
glycosides, content, soil types 6246 Absinth soil, types, plant composition 6246
Abutilon spp. growth substances
responses
aminozide, annual report, UK 2155
chlormequat, annual report, UK
2155 Acalymma vittata
host preference, cucumber and gherkin
pests 2772 varietal resistance, cucumber and gherkin
pests 1182 Acantholimon spp.
flower, biology 6988 plant, anatomy 6989 pollen, studies 6988
plant, anatomy 6989
pollen, studies 6988
Acanthopanax sessiliflorum, composition 3961
Acanthophyllum sordidum, saponins 3967
Acanthoscelides obtectus
bean (<i>Phaseolus</i>) pests 5262
irradiation, gamma rays, sterilization, bean (<i>Phaseolus</i>) pests 2024
resistance, bean (<i>Phaseolus</i>) pests 182
resistance, bean (<i>Phaseolus</i>) pests 182 Acanthospermum hispidum, essential oil,
medicinal properties 3016
Acanthospermum hispidum, as weeds,
peach 1016
Acaphylla theae, tea pests, annual report,
India 1657
Acaricides
Acarben, injury, ornamental plants 7024
application, equipment, types compared,
apple 2583 CELA K 673 5685 CELA S 2957 5685
CFLA S 2957 5685
chlorphenamidine, injury, ornamental
plants 7024
demeton, injury, chrysanthemum 6976
diazinon, pest resistance, chrysanthemum
6974
dicofol, injury, ornamental plants 7024 dimethoate, injury, ornamental plants
7024
dioxathion 1744
injury, ornamental plants 7024
ethion, pest resistance, chrysanthemum
formetanate, injury, ornamental plants
7024
malathion, pest resistance,
chrysanthemum 6974
methiocarb, tolerance, chrysanthemum,
annual report, German Federal
Republic 8837
monocrotophos, injury, chrysanthemum 6976
naled, pest resistance, chrysanthemum
6974 oil formulations, injury, apple 473
Omite, injury, ornamental plants 7024
oxydemeton-methyl, injury, ornamental
plants 7024
parathion ethyl, pest resistance,
chrysanthemum 6974
Plictran injury, ornamental plants 7024
residues
fruit
apple 1770
pear 1770
quinomethionate, injury, ornamental
quinomethionate, injury, ornamental plants 7024
quinomethionate, injury, ornamental plants 7024 tetradifon, injury, grapevine 7580
quinomethionate, injury, ornamental plants 7024 tetradifon, injury, grapevine 7580 various, tolerance, ornamental plants
quinomethionate, injury, ornamental plants 7024 tetradifon, injury, grapevine 7580 various, tolerance, ornamental plants 2173
quinomethionate, injury, ornamental plants 7024 tetradifon, injury, grapevine 7580 various, tolerance, ornamental plants 2173 Volck Oil, injury, ornamental plants 7024
quinomethionate, injury, ornamental plants 7024 tetradifon, injury, grapevine 7580 various, tolerance, ornamental plants 2173 Volck Oil, injury, ornamental plants 7024 Acer, annual report, Netherlands 4604
quinomethionate, injury, ornamental plants 7024 tetradifon, injury, grapevine 7580 various, tolerance, ornamental plants 2173 Volck Oil, injury, ornamental plants 7024

anthocyanins 744

```
Acer spp. contd.
   leaf contd.
      phenolic compounds 744
   salinity, damage, shoot growth 4715
   seed, germination 3906
Aceria esculenti, okra pests 8748
A. gracilis, raspberry pests, annual report, UK 3552
A. guerreronis
  coconut pests 389
     annual report, Jamaica 4851
   control, coconut pests 9155
A. litchi, litchi pests, annual report, India
    4024
Aceria mangiferae, mango pests 3228-3229, 4065
A. sacchari
  cane age, sugar cane pests 9253
incidence, sugar cane pests 9253
varietal resistance, sugar cane pests 9227
   vectors, streak, sugar cane pests 6443
A. sheldoni
   citrus pests 4003
   control, orange pests 7145
orange pests

Aceria tulipae
garlic pests 228, 3757
onion pests 228
Achillea castilaginea
   essential oil
      bactericidal properties 8005
content, seasonal variations 8005
      medicinal properties 8005
A. millefolium
  coumarins 9016
essential oil 9016
fats 9016
glycosides 9016
   organic acids 9016
resins 9016
   saponins 9016
tannins 9016
A. spp.
   essential oil
     composition 3064
content 7983
Achimenes spp.
   diseases, tobacco mosaic, varietal resistance 7017
   growing, as pot plants, annual report,
Canada 8836
   varieties, disease resistance, tobacco
       mosaic 7017
Achrysocaris promecothecae, parasite of,
     Promecotheca cumingi, coconut 8143
Achyranthes aspera, medicinal properties
    4753
Acidanthera diseases, annual report,
Netherlands 2219
Aconitum ferox, alkaloids, content 5517
A. koreanum, alkaloids, content 5518
A. napellus
   alkaloids, determination 3962
   diseases
       Fusarium oxysporum 3963
       Verticillium albo-atrum 3963
   growing, as a medicinal plant 3963
A. spp., alkaloids, application to, lettuce, pea 4754
Actinidia arguta, alkaloids, content 2308
A. spp., growing, USSR 4299
Actinodaphne obovata, alkaloids, content
 Actinomyces griseoruber
   extracts
plant treatment, cabbage 6792
seed treatment, cabbage 6792

A. spp., antagonistic to, Agrobacterium tumefaciens, quince 5799
Aculops berochensis, plum pests 2658
Aculus fokeui, plum pests 2658
A. schlechtendali, population studies, apple
    pests 956
Acyrthosiphon pisum, pea pests, annual report, UK 5153
Adelencyrtus miyarai, parasite of,
```

Aulacaspis tegalensis, sugar cane 9256

Adenanthera pavonina, glycosides 9017

```
Adonis spp., diseases, Urocystis leimbachii
    2350
Adoretus spp., cacao pests, annual report,
Ghana 7177
    Ghana
Adoxophyes orana
  apple pests 478, 1765
     annual report
        Netherlands 5697
        UK 8318
  forecasting, light traps 1764
A. reticulana
  apple pests, annual report, German
  Federal Republic 6506 control, apple pests 7392
Aechmea spp.
  diseases, Fusarium oxysporum 4673 flower, bud initiation, growth substances,
      NAA 1372
  fungicides
     application
        methods compared
          benomyl 4673
NF-35 4673
        application methods, benomyl 4673
        prevention, Ceresan 4673
   growth substances, flower bud, initiation,
      NAA 1372
Aechmeaspp., trichome, anatomy,
    morphology 6199
Aegeria myopaeformis
  apple pests 4215
  biological control, apple pests 3409
  control, apple pests 7393
Aeneolamia postica, Mexico, sugar cane
   pests 6440
A. varia saccharina
  aerial spraying, sugar cane pests 8235 control, sugar cane pests 4891 insecticides, resistance, sugar cane pests
      8235, 9254
Aerial
  photography
     disease detection, cucumber and
         gherkin, annual report, USA
     disease survey, Xanthomonas phaseoli
179
     nutrient toxicity, grapefruit, annual
report, USA 790
tree, height, estimation, apple 4174
     vegetation sampling, equipment 4125
     acaricides
     Panonychus citri, orange 8079
various, apple 7372
bactericides, Pseudomonas lachrymans,
         cucumber and gherkin diseases
         1195
     fungicides
        Alternaria cucumerina, cucumber and gherkin diseases 1195
         cherry 8438
         Colletotrichum coffeanum, coffee
            3206
         C. spp., tomato 2876
Hemileia spp., coffee 3206
         Venturia inaequalis, apple 7372
     general
        deposits
           pear, annual report, UK 903
tea 4111
     helicopters 4934
herbicides, sugar cane, annual report,
USA 9221
     insecticides
        Aeneolamia varia saccharina, sugar cane 8235
        Ceratitis capitata, coffee 5623 cherry 8438
        Cydia pomonella, apple 7372
Diatraea spp., sugar cane 8235
Longiunguis sacchari, sugar cane
            8235
         Pyrilla spp., sugar cane
         Sipha flava, sugar cane 8235
         Tryoza erytreae, orange 4805
```

Adhatoda spp., propagation, cuttings 2168

Aeschynanthus spp.	Agrobacterium tumefaciens contdnematode complex, almond diseases	Air pollution contd. injury contd.
flowering light, intensity 7951	3367	prevention contd.
photoperiodism 7951	nursery stock, diseases 7318	mango 1592, 4064
temperature 7951	rootstock resistance, almond diseases	sprays, ornamental plants 6132
growing, in pots, annual report,	4168	lead Common Fodows
Netherlands 6127	rootstock treatment, pre-planting, pear	cabbage, annual report, German Federal Republic 7599
growth studies 7951	diseases 4207 varietal resistance, grapevine diseases	content
light, intensity, flowering 7951 photoperiodism, flowering 7951	5857, 8557	fruit, grapevine 5837
temperature, flowering 7951	Agromyza spp., control, chive pests 8746	roadside plants, trees and shrubs
Aesculus spp.	Agropyron repens	440
flower, extracts, taxonomic studies 8957	as weeds blueberry 8497	photochemical oxidants fruit trees and plants 3306
nut, extracts, tissue culture media 6206 taxonomy, chemotaxonomy 8957	mustard, annual report, German	vegetables 3306
Africa, date, growing, book 9109	Federal Republic 7964	plant resistance, smoky atmosphere, trees
Afromelanichneumon sporadicus, parasite of,	rhubarb, annual report, UK 5885	and shrubs 2274
Ascotis selenaria, coffee pests 1584	strawberry 2697	plant responses 3 dusts containing heavy metals 865
Agapanthus spp. glycosides 4666	A. spp. as weeds	fruit trees and plants, vegetables 3306
sterols 4666	grapevine 5840	lead 865
Agaricus (see also Mushroom)	lawns and sports turf 5443	annual report, German Federal
A. arvensis, edible fungi 6958	Agrostis spp.	Republic 6481
A. augustus, edible fungi 6958	lawns 2967 lawns and sports turf, variety trials 7021,	nitrogen dioxide, greenhouse crops 7296
A. bisporus annual report, Netherlands 6120	7918	olefines, greenhouse crops 7296
diseases, Pseudomonas tolaasii 4600	nitrogen, content, leaf, nutrient source	survey, USA 1680
edible fungi 703, 6122	3893	zinc, annual report, German Federal
A. bitorquis	nutrition	Republic 6481
annual report, Netherlands 6120 edible fungi 698, 703, 6958	nitrogen, sources, compared 3893 potassium	resistance, leaf, pigments, berberis 2998 stomatal movements, sulphur dioxide,
A. edulis, edible fungi 6958	calcium, content 3893	bean (Vicia) 2039
A. spp., genetics 3825	magnesium, content 3893	studies, equipment, ornamental trees and
Agathosma spp.	manganese, content 3893	shrubs 7845
drying 2324	nitrogen, content 3893	testing, bedding plants 1322
essential oil 2324 harvesting, time of 2324	sodium, content 3893 sources, compared 3893	types 878 Ajuga spp., herbicides, injury 1323
seed	phosphorus, content, leaf, nutrient source	Albizzia spp.
germination 2324	3893	cold
seed maturity 6234	roadsides, establishment 3888	resistance
Ageratum	root, development, turf 302	nucleic acid content 1398
dwarfing, growth substances 5390 seedling	A. tenuis lawns and sports turf	plant anatomy 3927 proteins, content 1398
production, temperature 276	car parks 7919	leaf
raising, pots, types compared 5390	mowing, population studies 8916	movements
weed control 2171	nitrogen nutrition, population studies	light 5265
as weeds, oil palm 1601	8916 Agrotis segetum	potassium 5265
Ageratum conyzoides, essential oil, composition 9018	hop pests, annual report, German Federal	nyctinasty 6235 light
Ageratum diseases, tomato spotted wilt	Republic 340	blue, leaf, movements 5265
4635	Solanum laciniatum, pests 5536	red, leaf, movements 5265
Ageratum growth substances	A. spp.	pests, Meloidogyne incognita 751
dwarfing, Pydanon 5390 retardants, Pydanon 2163	lettuce pests 1971 annual report, German Federal	phytochrome, leaf, movements 5265 plant, composition 4145
Ageratum spp.	Republic 7597	propagation, cuttings, root, nematode
as weeds	radish pests, annual report, German	control 751
sugar cane 9236	Federal Republic 8579	proteins, content, cold resistance 1398
tea 9272 Agistemus fleschneri	Agulla xanthostigma, biological control of,	seedling
population studies, fungicides, apple	Aegeria myopaeformis 3409 Ailanthus spp., ringing, bridge development	composition nucleic acids, cold, resistance 1398
5737	3008	protein, cold, resistance 1398
predator on, Panonychus ulmi, apple	Air-layering	Alcohols, fruit, disorders, apple, annual
4213	cola, annual report, Nigeria 4035	report, USA 3348
Agistemus spp., predator on, Eutetranychus orientalis, citrus 1488–1489	mango 3227 media, mango 3218	Aleurocanthus woglumi, citrus pests, annual
Aglaonema spp.	nematode survival, litchi 6373	report, USA 791 Aleyrodes sizoukinensis, Phyllanthus acidus
diseases	peony propagation 4613	pests 2481
dasheen mosaic 2975	root initiation, biochemistry, mango	Algae
Erwinia carotovora 3915 Agricultural, statistics, USA 899	3226	control 8846
Agricultural crops, bibliography 6477–6478	rose propagation 5470 stone fruits 1015	pot plants 8846 sand beds for pot plants 8847
Agrilus spp., rose pests 7084	time of, avocado 8054	fertilizers, enzyme activity, tomato 6098
Agriotes spp., seed, treatment, watermelon	treatment	irradiation, gamma rays, injury, reduction,
pests 2002	growth substances	tomato 6097
Agrobacterium radiobacter biological control 443	cashew 6396 guava 8160	medicinal properties, survey 775
var. tumefaciens, biological control, peach	mango 3226-3227	soilless culture, nutrient solution, strawberry 2701
diseases 2642	Air pollution (see also Fluorine; Sulphur	Algeria, Urginea maritima, growing 7116
A. rhizogenes	dioxide)	Alkaloids
fruit trees and plants, diseases 7318 nursery stock, diseases 7318	injury 878 acidic fumes, mango 1592, 4064	applied
A. tumefaciens	bean (Phaseolus) 3698	lettuce 4754 pea 4754
apple diseases 4206	dust, ornamental plants 6132	biosynthesis, Solanum dulcamara 7114
blackberry diseases, annual report, UK	exhaust gases, endive 865	content
7489 cherry diseases annual report TIV 9319	fruit trees and plants, vegetables 3306	irrigation, Solanum dulcamara 8040
cherry diseases, annual report, UK 8318 fruit trees and plants, diseases 7318	nitrogen oxides 4130 oxidants, ornamental plants 6132	monthly variations, <i>Mitragyna</i> spp.
host-pathogen relationships, grapevine	ozone 2015	5526 nitrogen nutrition, poppy 7112
diseases 5856–5857	peroxyacetyl nitrate 4130	phosphorus nutrition, poppy 7112
incidence, Brazil, Sechium edule, diseases 8652	bean (Phaseolus) 2925	ultra-violet light
loganberry diseases, annual report, UK	chrysanthemum 2925 prevention	Atropa spp. 6288
7489	fungicides, bean (<i>Phaseolus</i>) 3698	Datura spp. 6288 determination, poppy 5528
	((poppj 5520

ubject Index		93:
lkaloids contd.	Almond nut, proteins, content 4941	Alternaria contd.
metabolism, poppy 6307 plant sources 9015	Almond nutrition	A. brassicicola
India 7065	manganese, application, foliar 8333 nitrogen, irrigation 2534	brassicas, diseases, annual report, UK 1934
survey 2344	phosphorus	cauliflower and broccoli diseases 1170
production tissue culture	application, foliar 8333 irrigation 2534	A. citri, fruit storage, citrus diseases 5574
Atropa belladonna 6287	potassium, application, foliar 8333	A. cucumerina, aerial spraying, cucumber and gherkin diseases 1195
Catharanthus roseus 7102	zinc, application, foliar 8333	A. dauci
fenugreek 4778 Rauwolfia spp. 5531	Almond pests Brachycaudus helichrysi 459	carrot diseases, annual report, USA 858: incidence, Nigeria, carrot diseases 5371
Ulium spp.	Meloidogyne javanica, disease	A. fici, fig diseases 8450
classification 4521 colchicine treatment, cell development	relationships 3367 mites, biological control 29	A. kikuchiana host enzyme activity, pear diseases 7458
2087	Paramyelois transitella	host phenolic compounds, pear diseases
diseases, <i>Pseudomonas syringae</i> 2083 growth substances, cell development	biological control 4955 control, cultural methods 33	6645 resistance
2087	Pterochloroides persicae 459	breeding and selection, pear diseases
stem, anatomy 4520 tuliposides 8908	Almond propagation 26	6642
as weeds, grapevine 1903, 5840	air-layering 1015 cuttings, root, treatment, growth	pear diseases 7458 varietal resistance, pear diseases 6645
Illochrusa gypsophiloides, saponins 3967	substances, IBA 8323	A. mali, apple diseases 7379
Imond amino acids, content, leaf 5773	Almond root, formation, growth substances 5708	A. musae, banana diseases 4833 A. passiflorae, passion fruit diseases, annual
annual report, Tunisia 4944	Almond rootstocks	report, Australia 4782
breeding and selection, pest resistance, Meloidogyne javanica 4166	bitter almond 4168 disease resistance, Agrobacterium	A. porri carrot diseases 693
carbohydrates, metabolism, leaf 5773	tumefaciens 4168	leek diseases 661
classification, Afghanistan 4165 fatty acids, seed 8424	sweet almond 4168 Almond seed, proteins, extraction 3368	onion diseases, annual report, Netherlands
flowering, date, irrigation 2535	Almond varieties 3366	A. radicina, carrot diseases 2139
frost, resistance, varieties, USSR 2533	Bulgaria 919	A. solani, -nematode complex, tomato
fungicides, translocation, oxycarboxin, growth substances 5707	comparative trials, annual report, Cyprus 3345	diseases 2877 A. spp.
growing	flower	apple diseases 1753
Bulgaria, book 3363 economics 3364	nectar composition 8334 nectar production 8334	carrot diseases annual report
Italy 3364-3365	frost resistance 2533	German Federal Republic 8579
review 8332 harvesting, mechanical, shakers 4169	Markovo II 458 pollination 2536	USA 4367 cherry diseases 5022
hybrids 4165	register, USA 4156	control, bean (<i>Phaseolus</i>) diseases 8690
irrigation	Tunisia 4155	epiphyte, pecan 2653
flowering, date 2535 plant nutrition 2534	winter hardiness 2533 Aloe spp., chromones 3065	gerbera diseases 2200 incidence, Nigeria, vegetables 5166
irrigation recommendations 4167	Alopecurus pratensis, lawns and sports turf,	varietal resistance, tomato diseases 4553,
pollen, germination, morphology 8330 pollination 2536	breeding and selection, disease resistance 6195	6055 A. tenuis, fruit storage, fig diseases 1010
production and trade, Italy 3364-3365	Aloysia triphylla, essential oil 8991	A. tenuissima
biosynthesis 5773	Alpine plants, annual report, Austria 265 Alpinia officinarium, essential oil,	aster, china, diseases 6993 fungal parasites, <i>Puccinia palargonii</i> -
extraction, seed 3368	composition 7965	zonalis, geranium 6982
as a rootstock for, peach 3468 seedling, growth, inhibition, growth	A. officinarum, flavonoids 5486 Alstonia boonei	Althaea spp., hybrids, mucilage, content 7098
substances 5708	alkaloids 3066	Altitudes
sterols choline, content 4954	content 1427 terpenes, content 2351	fruit, quality, mandarin and tangerine 3107
seed 8424	A. spp., alkaloids, content 1436	plant, growth, Vaccinium spp. 4318
vitamin E, seed 8424	Alstroemeria	rhododendron 2985
winter hardiness, varietal differences	annual report, Netherlands 6126 flowering	trees and shrubs, suitability 2274 Aluminium
2533	light 7975	calcium absorption, apple 5730
Ilmond bud, initiation 2535 Ilmond diseases	intensity 7875 supplementary 7875	content, nitrogen nutrition, tea 6457 determination, rubber 7227
Agrobacterium tumefaciens	photoperiodism 6990, 7875	magnesium absorption, apple 5730
-nematode complex 3367 rootstock resistance 4168	temperature 6990 light	phosphorus absorption, sugar cane 7252 potassium absorption, apple 5730
Fusicladium carpophilum, control 7328	intensity, flowering 7875	toxicity
Verticillium dahliae 7329 Imond disorders, apoplexy, fungus	supplementary, flowering 7875 photoperiodism, flowering 6990, 7875	apple 5730 enzyme activity, pea 8721
relationships, <i>Phytophthora</i> spp. 454	temperature	grapevine nutrition 576
lmond flower bud development	flower bud, initiation 6990 flowering 6990	nitrogen nutrition, pea 7728 phosphorus nutrition, pea 7728
irrigation 2535	Alstroemeria flower, bud initiation,	plant tolerance
temperature 2535	temperature 6990	bean (<i>Phaseolus</i>) nutrition 5974
bud initiation soil moisture 2535	Alstroemeria spp., tuliposides 8908 Alternanthera pungens	pea 6864 sugar cane 409
temperature 2535	anatomy 4755	varietal resistance, pea 8721
composition, varietal differences 8334	morphology 4755 Alternaria alternata	varietal responses, bean (<i>Phaseolus</i>) 5974 Alyssum seed
production, varietal differences 8334	jasmine diseases 336	sowing
Imond growth substances fungicides, translocation, aminozide,	post-harvest dips apple diseases 5007	direct, in pots, pelleted 2165 peat 7606
chlormequat 5707	pear diseases 5007	treatment, pelleted 2165
responses, chlormequat, review 8310 root	A. brassicae control, cultural methods, melon	Amaranthus, growing, as a vegetable 7823 Amaranthus retroflexus, as weeds, container
formation	(cantaloup and musk) diseases 2770	grown plants, holly 4693
IBA 5708	melon (cantaloup and musk) diseases 2770	A. spp.
NAA 5708 seedling	varietal resistance	growing, vegetable crop 6119 leaf
growth	brussels sprouts diseases 4420	composition
inhibition IBA 5708	cabbage diseases 4420 melon (cantaloup and musk) diseases	protein 6119 vitamins 6119
NAA 5708	2770	nutritional value 4388

.50		
Amaranthus spp. contd.	Amino acids contd.	Anethum sowa
phytochrome, degradation, light, coloured 3736	content <i>contd.</i> seed <i>contd.</i>	essential oil composition 4757–4758
vegetable, seed, sowing, dates 697	mutants, pea 8732	fungicidal properties 6256
as weeds artichoke, globe 3633	sulphur dioxide, pea 6015 degradation, <i>Phoma destructiva</i> , tomato	A. spp., seed, composition 346 Angelica gigas
asparagus 2827	4573	composition 784
bean (<i>Phaseolus</i>) 2017, 6842 citrus 6339	determination, paper chromatography, tomato 8807	medicinal properties 784 A. silvestris, coumarins 6283
cucurbits 623, 6812	disease incidence, capsicum 2846	Angelica spp.
peach 4252	metabolism	coumarins, content 1446, 5519
vegetables 680 Amaryllidaceae, ornamental species,	apple 8401 cauliflower and broccoli 5936	glycosides, content 785 harvesting, time of, medicinal use 3067
Denmark 3863 Amaryllis, enzyme activity, flower 3851	coffee 4060	medicinal properties 785
Amaryllis diseases	fruit citron 8095	plant composition 3067 taxonomy, coumarins, content 5519
fungus, unidentified 4667 Hippeastrum-mosaic, vectors, annual	maturation, citron 8094	Aniba roseodora, flavonoids 6245
report, Netherlands 6961	ripening, tomato 8800 growth substances, radish 6803	Anisandrus dispar, apricot pests 63 Annona muricata
Amaryllis spp., growing, as an intercrop, Strelitzia spp. 8879	leaf, bean (<i>Phaseolus</i>) 5996	growing
Amblypelta theobromae, cacao pests 2444	mycorrhiza, hazel 7435	Hawaii 3175 Venezuela 1533, 8119
Amblyseius cucumeris, predator on, Eutetranychus orientalis, citrus 1488	pea 5261 Ammi majus	A. spp.
4. hibisci	coumarins 4756	fruit, irradiation, gamma rays, post-
Brevipalpus calcifornicus, citrus 1489	glycosides 8006 A. spp.	harvest, storage life 2435 growing, USA 1531
Eutetranychus orientalis, citrus 1488	coumarins, content, estimation,	A. squamosa
4. spp., predator on, Eutetranychus orientalis, citrus 1489	spectrophotometric 7099 diseases, virus, incidence, German Federal	fruit, aroma 7171 seed oil, insecticidal properties 1534
Amelanchier spp.	Republic 6781	Annual report
fluorine, toxicity, plant tolerance 7845 sulphur dioxide, injury, plant resistance	fruit coumarins, content, temperature 782	Australia
7845	maturity, coumarins, content 4756	Brisbane Bureau of Sugar Experiment Stations
American tropics Solanaceae	growth substances, responses, GA 9019 nucleic acids 4590	9219
fruit species 9123	nutrition, NPK, coumarins, content 782	Queensland Department of Primary Industries 7596, 8313, 9068,
growing 9123 Amides	seed carbohydrates, content growth	9121
biosynthesis, translocation, root, plant	substances 9019	Sandy Trout Food Preservation Research Laboratory 755, 901,
nutrition, grapevine 5868 content, leaf, <i>Deuterophoma tracheiphila</i> ,	chromones, content growth substances 9019	1134, 1460, 1529
lemon 8061	oil, content growth substances 9019	Griffith, CSIRO Division of Irrigation
Amino acids absorption, cucumber and gherkin 6831	temperature, fruit, coumarins, content 782	Research 550, 1133, 1466, 6480, 6523, 6769, 9074
applied coffee 4060	tissue culture, polyembryony induction 1447	New South Wales, Department of
enzyme activity, pea 7732	Ammonium, toxicity, soil, steaming,	Agriculture 4296, 4782, 5385, 5600, 5693, 5882
virus, control 888 biosynthesis	frequency 1325 Amorphophallus campanulatus, stem,	Victoria, Tatura Horticultural Research Station 450
apple 967	anatomy 6949	Austria, Wien-Schönbrunn, Höhere
fruit, grapevine 7587 irradiation, gamma rays, kohlrabi	Amphimallon majalis, lawns and sports turf, pests 7930	Bundeslehr- und Versuchsanstalt für Gartenbau 114, 265, 347
5931	Amphorophora agathonica, varietal	Belgium
leaf, grapevine 7587 pea 7739	resistance, raspberry pests 1863 A. rubi	Brussels Institut pour L'Encouragement de la
photoperiodism, coloured light, Salvia	blackberry pests 5079	Recherche Scientifique dans
sclarea 7085 translocation, root, plant nutrition,	virus, vectors, <i>Rubus</i> viruses, raspberry 4317	L'Industrie et L'Agriculture 1131, 5071
grapevine 5868	Amsonia elliptica, plant, composition 9031	Institut pour L'Encouragement de la
bud, biennial bearing, apple 5742	A. tabernaemontana alkaloids 6284	Recherche Scientifiques dans L'Industrie et L'Agriculture
bulb, shallot 6035	flavones, determination 8007	4942, 5386
dormancy, cabbage 8632	glycosides, determination 8007 Amygdalus spp., classification 4165	Gembloux Centre de Recherches Agronomiques
fruit 8667 Citrus spp. 7157	Anabaena cylindrica, alga, soilless culture,	de L'État 2517, 4363
drought, mandarin and tangerine	nutrient solution, strawberry 2701 Anacardiaceae	Centre de Recherches Agronomiques de l'État 6691
8093 mandarin and tangerine 8086	fruit species, American tropics 9124	Comité National pour l'Étude de la culture Fruitière 902
natsudaidai, orange, grapefruit,	growing, American tropics 9124 nomenclature 9124	Gent, Government Agricultural
mandarin and tangerine 7157 olive 9115	value 9124 Anagallis spp., as weeds, artichoke, globe	Research Centre 4925, 5906, 6272
phosphorus nutrition, potassium	3633	La Hulpe, Station Provinciale de
nutrition, capsicum 6039 ripening, banana 5607	Anagrus epos, parasite of, Erythroneura ziczac, grapevine 5861	Recherches Scientifiques Agricoles et Viticoles 3559
herbicides, bean (Phaseolus) 5995	Anagyrus saccharicola parasite of,	Noorderkempen, Proefbedrijf der
iron, tissue culture, carrot 1307 irrigation, Solanum dulcamara 8040	Saccharicoccus sacchari, sugar cane 8242	Noorderkempen 1060, 5148, 8578 Rillaar, Tuinbouwstichting Hageland-
leaf	Anarsia lineatella, apricot pests 63	Zuiderkempen, Rillaar 4297, 6503
almond 5773 Deuterophoma tracheiphila, lemon	Anastrepha fraterculus, peach pests 8459 A. suspensa, peach pests, annual report,	Burundi, Bujumbura, Institut des Science Agronomiques 4031–4032, 4786
8061 mandarin and tangerine 8086	USA 4945	Canada
peach 5773	Anemone annual report, UK 3832, 3834	British Columbia Department of Agriculture 6667
phosphorus nutrition, potassium nutrition, capsicum 6039	forcing 6165	Kentville, Nova Scotia Fruit Growers'
plant, tea 6462	herbicides, responses 8852 weed control 8852	Association 5694–5696 Ottawa, Department of Agriculture,
review 4941 root, cobalt nutrition, tomato 8772	Anemone diseases, Peronospora anemones 2221	Research Branch 2515, 2669, 273
seed	Anemone propagation, cuttings, root 4613	2910 Quebec
bean (<i>Phaseolus</i>) 8704 development, cabbage, chinese 8633	Anemone soil, fumigation, Peronospora anemones 2221	Conseil des Recherches Agricoles, Québec 4170, 5883, 6668

Annual report contd.

Canada contd.

Quebec contd

Ministère de l'Agriculture et de la Colonisation, Québec 538, 1719, 1944, 2154

Toronto, Agricultural Research Institute of Ontario 7488, 8314,

8836
Victoria, British Columbia Department
of Agriculture 3370, 3603, 3882
Cyprus, Nicosia, Agricultural Research
Institute 3345, 3560, 3604, 3980
Czechoslovakia, Prague-Ruzynč, Research
Institutes for Crop Production 6713

Denmark

Copenhagen, Almindelig dansk Gartnerforening 3298 Lyngby, Statens Plantepatologiske

Forsøg, Lyngby 4136 East Africa

East African Agriculture and Forestry Research Organization 8188 Nairobi, Industrial Research Organization 4855

East African Community, Tropical Pesticides Research Institute 5245, 5617

France

Institut de Recherches Agronomiques Tropicales et des Cultures Vivrières 754, 3605, 5647

Institut de Recherches sur la Caoutchouc en Afrique 9205

Caoutchouc en Afrique 9205
Institut de Recherches sur le
Caoutchouc en Afrique 3250
German Federal Republic
Berlin and Braunschweig, Biologische
Bundesanstalt für Land- und
Forstwirtschaft in Berlin und
Braunschweig 7063, 7599, 8837
Berlin und Braunschweig, Biologische
Bundesanstalt für Land- und

Bundesanstalt für Land- und Forstwirtschaft in Berlin und
Braunschweig 4298, 6504
Braunschweig, Deutscher
Pflanzenschutzdienst 6506, 6669,

7064, 8579

Geisenheim, Hessische Forschungsanstalt für Wein-, Obst-und Gartenbau 8315

Hamburg, Institut für Angewandte Botanik der Universität Hamburg 5094, 6481, 6505, 6959, 7070, 7597

Hüll, Hans-Pfülf-Instituts für Hopfenforschung 340, 7087

Mainz, Landespflanzenschutzdienst Rheinland-Pfalz 7309, 7598, 7843,

Munich, Fachhochschule
Weihenstephan 7310, 7600, 7844
German Federal republic, Weinsberg,
Staatliche Lehr- und Versuchsanstalt
für Wein und Obstbau, Weinsberg

German Federal Republic, Weinsberg, Staatliche Lehr- und Versuchsanstalt für Wein und Obstbau, Weinsberg

Ghana, Tafo, Cocoa Research Institute 7177

Guyana, Sugar Experiment Station 9220

Coimbatore, UPASI Tea Scientific Department 1657

New Dehli, Institute of Horticultural Research, Hessaraghatta, Bangalore

New Delhi, Institute of Horticultural Research, Hessaraghatta, Bangalore 2667, 3606–3607, 3971, 4024, 4033–4034

Irish Republic Dublin

The Agricultural Institute 1720, 1857, 1939, 2909, 3957, 6482, 6770, 7032, 8035 University College, Faculty of General Agriculture 2538, 5150 Israel, Jerusalem, Ministry of Agriculture,

Center for International Agricultural Cooperation 3608

Annual report contd.

Italy, Pisa, Università di Pisa, Facoltà di Agraria 6507, 6714, 6771, 6960, 8050 Jamaica, Coconut Industry Board 4851

Kericho, Tea Research Institute of East Africa 7264

Nairobi

Coffee Research Foundation 3191 East African Agriculture and Forestry Research Organization 6844

Malawi, Zomba, Department of Agriculture 8580, 9119

Netherlands

Aalsmeer, Proefstation voor de Bloemisterij in Nederland te Aalsmeer 6126-6127

Boskoop, Proefstation voor de Boomkwekerij te Boskoop 2516, 4604

Consulentschap voor Champignonteelt; Stichting Proefstation voor de Champignoncultuur; Centrum voor Champignonteeltonderwijs;

Laboratorium Domesticatie
Paddestoelen 6120
Haren-Groningen, Instituut voor
Bodemvruchtbaarheid 4956, 5095, 5151, 6962

Lisse, Laboratorium voor Bloembollenonderzoek

Naaldwijk

Proefstation voor de Groenten- en Fruitteelt onder glas te Naaldwijk

Proefstation Voor de Groenten- en Fruitteelt onder glas te Naaldwijk 1068

Proefstation voor de Groenten- en Fruitteelt onder glas te Naaldwijk 1135

Wageningen

Instituut voor Plantenziektenkundig Onderzoek 5073, 5698, 6772, 6961

Instituut voor Tuinbouwtechniek 23, 100, 1132, 1314, 7285, 8581 Wilhelminadorp, Proefstation voor de Fruitteelt 5697, 6670 New Zealand, Levin, Horticultural Research Centre 4171, 5074, 5152,

5391

Nigeria

Benin City, Institute for Oil Palm Benin City, Institute for Oil Palm Research 9181 Cocoa Research Institute 4035 Philippines, Sugar Institute 8189 Rhodesia, Salisbury, Secretary for Agriculture 4149, 4364, 4829 Sabah, Department of Agriculture 858: 9075, 9135 Sarawak, Department of Agriculture, Research Branch 3609, 3933, 4036 South Africa

South Africa

Durban, South African Sugar Experiment Station 7229

Mount Edgecombe, South African
Sugar Association Experiment
Station 7230

Sri Lanka

Coconut Research Institute 7185 Peradeniya, Director of Agriculture

Talawakele, Tea Research Institute

8262 St. Lucia, Ministry of Agriculture, Research Division 8056, 8577

Sweden, Kristianstad,
Lantbrukshögskolan, Avdelningen för
Växtförådling av Frukt och Bär,
Balsgård 5075, 6508
Trinidad and Tobago, St. Augustine,
University of the West Indies 9136

Institut National de la Recherche Agronomique, Laboratoire d'Arboriculture Fruitière 3981, 4944

Institut National de la Recherche Agronomique, Laboratoire de Viticulture 3561

Annual report contd.

UK

Aberdeen

Macaulay Institute for Soil Research

North of Scotland College of Agriculture 1855, 1936, 2153

Ashford, Wye College Department of Hop Research 3954

Belfast, Ministry of Agriculture for Northern Ireland 4172, 4606, 5076, 5154

Boston, Kirton Experimental Horticulture Station 598, 732-733, 1872, 3538, 3610, 7907

Bristol

Agricultural Development and Advisory Service, South Western Region 3372

Long Ashton Research Station 903, 1856, 1938, 2155, 2330, 2380, 2449

Camborne, Rosewarne Experimental Horticulture Station 3834, 4366, 5096

Cambridge, National Institute of Agricultural Botany 5149 Dundee, Scottish Horticultural

Research Institute 3514, 3874, 4365

Edinburgh

Department of Agriculture and Fisheries for Scotland 248: School of Agriculture 3552, 3614, 3871

3871
Ely, Arthur Rickwood Experimental
Husbandry Farm 601
Harpenden, Rothamsted Experimental
Station 5153
Hereford, Rosemaund Experimental
Husbandry Farm 2537, 3040
Hoddesdon, Lee Valley Experimental
Horticulture Station 6774
London Forestry Commission 6483

London, Forestry Commission Lymington, Efford Experimental Horticulture Station 3373, 3533, 4605, 5884

Maidstone, East Malling Research Station 7489, 8139, 8317-8318, 9009

Norwich, John Innes Institute 3346, 3535, 3612, 3832 Peterborough, Pea Growing Research Organisation Ltd. 3611 Preston, Fairfield Experimental

Horticulture Station 4622, 6773

Horticulture Station 46.22, 67/3 Selby, Stockbridge House Experimental Horticulture Station 529, 1937 Shardlow, National Agricultural Advisory Service, East Midland Region 867 Silsoe, National Institute of Agricultural Engineering 2487, 2672, 2743, 5752

Stratford-on-Avon, Luddington Experimental Horticulture Station 3371, 3515, 3613, 3833

Wantage

Waltrage
Letcombe Laboratory 3521
Letcombe laboratory 5943
Wellesbourne, National Vegetable
Research Station 1934

Wolverhampton

Agricultural Development and Advisory Service, West Midland Region 3347, 3534, 4742, 5885, 6128, 8316

Agricultural Development and Advisory service, West Midland Region 8583

Agricultural Development and
Advisory Service, West Midland
Region 8838

USA

Carbondale, Northern Nut Growers Association Inc. 25

East Lansing
Michigan State University

Agricultural Experiment Station 7490, 7601, 8319, 8839
Michigan State University,
Department of Horticulture 3348, 3516, 3616, 3835

l	Anthurium contd.	Antirrhinum shoot
Annual report contd.		
USA contd.	potting composts, annual report,	breakage
Fort Collins, Colorado State University	Netherlands 6962	flower colour 2204
3300, 3357, 3617	report, USA 6130	shoot lignification 2204
Gainesville, Institute of Food and	seedling, pricking out, root trimming	Antirrhinum soil, fumigation, Verticillium
Agricultural Sciences, Florida	6991	albo-atrum 2206
University 437, 1440-1441, 1530,	shade	Antitrogus mussoni, insecticides, application,
2375, 4367-4368, 4945, 5078, 6129,	nutrition 7877	methods compared, sugar cane pests
		8236
6383, 6692, 8051, 8585, 8834	plant responses 7877	
Honolulu, Hawaiian Sugar Planters'	soilless culture	Ants
Association Experiment Station	media 8875	cacao pests 6394
9221	nutritional studies 8875	citrus pests 4003
Mississippi, Agricultural and Forestry	Anthurium diseases	Aonidiella aurantii
Experiment Station 1706, 1935,	bacterial, unidentified 4636	biological control
2152, 2433	Colletotrichum gloeosporioides, control	avocado pests 3983
		citrus pests 9096–9097
New Mexico, State University,	7876	
Agricultural Experiment Station	dasheen mosaic 2975	annual report, Cyprus 3980
3349, 3618, 3836	Anthurium flower	citrus pests 4003
Washington, State University 24, 324,	colour 7878	annual report, Australia 4782
1130, 5077	cut, vase life 6158	oil fruit dips, orange pests 1493
Weslaco, Spectral Survey of Irrigated	quality 7878	orange pests 5564
Region Crops and Soils 599–600,	Anthurium nutrition	parasites
790-791	fertilizers, slow-release 7877	Aphytis melinus
Venezuela, Caucagua, Estación	nitrogen, potassium 2211	citrus pests 1492, 1494
Experimental de Cacao 6391	NPK 7877	orange pests 1495
West Indies, Central Sugar Cane Breeding	Anthurium plant, variation 7878	population studies
Station and the Barbados Sugar Cane	Anthurium spp.	citrus pests 799
Variety Testing Station 4080	flower bud, initiation 1350	damage, mandarin and tangerine pests
Western Samoa, Alafua, Department of	juvenility 1350	2396
Agriculture, Forests and Fisheries		resistance
7602, 8122	propagation, annual report, Belgium	grapefruit pests 3134
	5386	lemon pests 3134
Yugoslavia, Ljubljana, Kmetijski Inštitut	Antibiotics	
Slovenije 3350, 3517, 3619	actinomycin, injury, bean (Phaseolus)	mandarin and tangerine pests 3134
Zambia, Lusaka, Department of	4475	NPK nutrition, orange pests 2397
Agriculture, Research Branch 7284,	actinomycin D, enzymes, biosynthesis,	orange pests 3134
8586–8587		Apanteles flavipes
Annual Review	tissue culture, artichoke, jerusalem	parasite of
entomology 7282	3630	borers, sugar cane 9255
Phytopathology 3316	fungicides	Diatraea saccharalis, sugar cane 2469
of Plant Physiology 1673	polyoxin, gooseberry 2679	Aphaenogaster pythia, sugar cane pests
Annuals	streptomycin, hop 1419	1638
nutrition, annual report, German Federal	virus, control 888	Aphanomyces euteiches, nematode
Republic 7844	Antirrhinum	relationship, pea diseases 211
pests, rabbits, damage 4616	air pollution, sulphur dioxide, ethylene,	A. raphani
planting, anti-transpirants 3333	injury 6132	infection process, cabbage diseases 7654
transpiration, anti-transpirants, leaf	annual report	radish diseases, annual report, German
senescence 3333	Canada 2910	Federal Republic 8579
Anoplophora macularia, litchi pests 373	UK 3832	A. spp.
4. spp., rootstock resistance, mandarin and	USA 8834	Echinodorus brevipedicellatus, diseases
tangerine pests 7128	chloroplast, protein, determination 5411	2974
Antestiopsis lineaticollis, coffee pests, annual	choline, determination 2933	pea diseases 2974
report, Burundi 4031–4032	flowering, genetics 3852	tolerance, pea diseases 2817
A. spp., coffee pests 6407	genetics 2932	Aphanostigma piri, pear pests 7459
Anthocleista zambesiaca, as medicinal plants	flowering, date 3852	Aphelandra
9020	growing	flowering
Anthocoris nemoralis, predator of, Phorodon	under cloth-shaded structures 8860	date
humuli, hop, annual report, UK 3954	conifer bark humus 7855	light, supplementary 2303
A. nemorum, predator of, Phorodon humuli,	under glass 7855	temperature 2303
hop, annual report, UK 3954	peat 7855	light, supplementary, flowering date
Anthocyanins	herbicides, responses 8852	2303
avocado, annual report, Trinidad and	light, intensity, heterosis expression 3853	temperature, flowering date 2303
Tobago 9136	ozone, injury 1322	Aphelenchoides besseyi, Ficus elastica, pests
biosynthesis	sulphur dioxide, injury 1322	2270
ethylene, cabbage 8630	tissue culture	A. blastophthorus, aster, china, pests 3858
growth substances, cabbage 8630	pistil 8873	A. fragariae
light, cranberry 8498	pollen 8873	bacteria complex, strawberry pests 5699
red light, cabbage 8630	weed control 2171, 8852	strawberry pests, annual report, German
temperature, cranberry 8498	Antirrhinum diseases, Verticillium albo-	Federal Republic 4298, 6669
cacao, annual report, Trinidad and	atrum, soil, fumigation 2206	A. ritzema-bosi
Tobago 9136	Antirrhinum flower	
content	cation exchange capacity 7873	aster, china, pests 3858
		strawberry pests 3551
flower, statice 8877	composition 7874	A. ritzemabosi
leaf, ornamental plants 8944	colour, shoot breakage 2204	chrysanthemum pests 3841
legumes 8705	composition 7873	strawberry pests, annual report, German
Antholyza spp.	glycosides 7872	Federal Republic 4298, 6669
seed	pigments 1344	A. spp.
composition 2943	Antirrhinum growth substances	mint pests, annual report, UK 4742
oil 2943	flower stem	strawberry pests, annual report, German
Anthonomus rubi	length	Federal Republic 5094
strawberry pests 8517	chlormequat 6987	Aphelenchus avenae, disease complex,
annual report, German Federal	GA 6987	
Republic 8481	flowering, date, GA 6987	Aphids apple peets appled report VIV
		Aphids, apple pests, annual report, UK
Anthriscus spp., ascorbic acid, carotene,	growth reduction, chlormequat 6987	8318
content, leaf 4728	Antirrhinum nutrition 1325	Aphis craccivora
Anthurium	iron	vectors
annual report, Netherlands 704, 6126	absorption, leaf 3854	subterranean clover stunt, yellow
fertilizers, slow-release 6964	sources, chelates 3854	mosaic, legumes 6846
growing	translocation 3854	virus
peat 8875	Antirrhinum orontium, plant, morphology	bean (Vicia) pests 6846
as pot plants 3855	9021	pea pests 6846
hybrids 3855	Antirrhinum plant, cation exchange capacity,	A. fabae
planting, spacing 8875	composition 7874	bean (Vicia) pests 4490
1 0 1		(ricia) posts 7770

Subject Index		9
Aphis fabae contd.	Apple contd.	Apple contd.
fertility rate reduction, antibiotics, bean	biennial bearing contd.	defoliation contd.
(Vicia) pests 8709	phosphorus contd.	growth substances 6511
pea pests 4504	root 2589	potassium iodide, magnesium chlorate
annual report, UK 5153	boron, content, leaf 6553	calcium cyanide 6512
4. forbesi, strawberry pests 5079	breeding and selection 461, 1728, 6525–6526	dormancy
Aphis gossypii biological control, cucumber and gherkin	annual report	breaking DNOC 4973
pests 3685, 5956	Sweden 6508	temperature 907
control	USA 4945	growth substances, endogenous 6575
cucumber and gherkin pests 5222	cold resistance 5699	induction, growth substances 4220
Cucumis melo var. flexuosus, pests 5222	disease resistance 44	water relations 6521
disease relationships, banana pests 4833	disease tolerance, <i>Podosphaera leucotricha</i> 2539	winter hardiness 6521 drought 8285
resistance, melon (cantaloup and musk)	dwarf forms 5699	leaf scorch 4979
pests 4443	fruit	photosynthesis 908
seed, treatment, squash pests 630	colour 4177	plant
vectors virus	size 460, 2539 internode length 923	cell numbers 908
bean (Vicia) pests 6846	Malus manshurica 4175	composition 908 resistance
pea pests 6846	pest resistance 44	plant nutrition 4962
virus vectors, manila hemp pests 2437	Dysaphis spp. 2539	rootstock-scion relationships 8354
4. grossulariae, small fruits, pests 5079	USSR 462	rootstocks 5741
1. idaei, raspberry pests 5079 1. pomi	cadmium, determination 4389	soil moisture 4962
annual report, Canada 2515	content	respiration 908 economics
apple pests 5738	fruit	climate-yield correlations 8349
control, growth substances, aminozide,	nitrogen nutrition 4972	EEC 3341
apple pests 4214	zinc nutrition 2605	high density planting 464, 7331
4. rubi, raspberry pests 5079 4. ruborum, blackberry pests 5079	leaf 6553 nitrogen nutrition 4972	insecticides, application, Italy 4153 Irish Republic 8336
Aphytis africanus, parasite of, Aonidiella	seasonal variations 6554	orchard depreciation 3352
aurantii, citrus 9096	varietal differences 6554	UK 3341
4. holoxanthus, parasite of, Comperiella	shoot 5705	electrical resistance, disease incidence,
bifasciata, citrus 1491	seasonal variations 6554	proliferation 7376
Aphytis melinus parasite of	varietal differences 6554 translocation	enzyme activity bark
Aonidiella aurantii	crystal formation 4221	nitrogen nutrition 7398
citrus 1492, 9097	growth substances 961	seasonal variations 7398
orange 1495	transpiration 1775	diseased plants 8402
Aspidiotus hederae, citrus 1492 Chrysomphalus dictospermi, citrus	carbohydrates content	fruit development 4993
1492	light, intensity 1731	disorders, internal browning 7412
Apocynum cannabinum	shoot, watercore 8384	storage 6592, 7412
tissue culture	metabolism	grafted plants 8402
callus	biennial bearing 6584 frost resistance 6580	inhibition, fungicides 6578 leaf
media analysis 2345 tissue analysis 2345	fruiting relationships 6579	nitrogen nutrition 7398
cell suspension	nitrogen nutrition 39	seasonal variations 7398
media analysis 2345	pruning and training 3399	plant, senescence 8402
tissue analysis 2345	seasonal variations 8403	root
Apoplexy fungus relationships	storage in roots, seasonal variations 8403	nitrogen nutrition 7398 seasonal variations 7398
apricot 7423	storage in shoots, seasonal variations	seasonal variations 50
stone fruits 454	8403	enzymes, fruit, disease resistance 5736
review, apricot 8425	carbon dioxide, uptake, seasonal variations	epiphytes, fungi, <i>Graphium</i> spp. 955
Aporocactus spp., diseases, virus, annual report, German Federal Republic 8837	4992 cell wall, composition, fruit 6603	ethylene biosynthesis 6591
Apple	chlorophyll	protein metabolism 2590
acaricides, residues, fruit, Plictran 1770	content	production
amino acids	iron nutrition 6563	fruit, growth substances, chlormequ
biosynthesis 967 content 967	leaf , diseased plants, proliferation 7377	1786 stressed branches 911
bud, biennial bearing 5742	potassium nutrition 5723	flowering
proliferation disease 7377	thickness 4991	date
metabolism 8401	seasonal variations 4991	forecasting 4961
annual report Australia 450, 901, 5693, 6523, 8313	degradation, leaf, senescence 7400 chloroplast	temperature 2592 temperature 4999
Belgium 902, 2517, 6503	number, light 8337	defoliation 4197
Canada 1719, 2515, 3370, 4170, 5694,	size, light 8337	growth substances
8314	climate, yield correlations 8349	morphactins 5743
Cyprus 3345	cold	NAD 3424 phosphorus nutrition 7368
German Federal Republic 4943, 6504–6506, 7309–7310, 8315	injury 6533 protection, forest belts 4186	rootstock-scion relationships 7312
Irish Republic 1720, 2538	resistance	temperature sums 4961
Netherlands 23, 4956, 5697-5698	grafting height 4180	frost
New Zealand 4171	plant nutrition 4180 plant vigour 5727	injury bark 2556
Rhodesia 4149 UK 903, 3347, 3371–3373, 4172, 5752,	copper	bud developent 1709
8316-8318	content	fruit 964
USA 24, 3348-3349, 8319	leaf	measurement 6539
Yugoslavia 3350	seasonal variations 6554 varietal differences 6554	pruning and training, time of 836.
ascorbic acid, content, fruit, varietal differences 7416	shoot	shoot
biennial bearing 4223	seasonal variations 6554	cell water relations 7397
bud, composition 5742	varietal differences 6554	mechanism 7353
carbohydrates, metabolism 6584	cover crops	stem 2587
fruit, quality 2608 growth substances, endogenous 5742	grass sward 5699, 5718 plant nutrition 8375	trunk 8351 protection
leaf, composition 970–971	soil, micro-organisms 2559	plastic films 3358
phosphorus	management, root growth 934	white paint 933
content 2589 leaf 2589	defoliation chemical 5716, 6510–6511	resistance carbohydrates, metabolism 6580
1041 2007	0110111011 0110, 0010 0011	our conjuitates, iniciations in 0000

Apple contd.	Apple contd.	Apple contd.
frost contd.	growth studies 8369-8370	insecticides contd.
resistance contd.	relative humidity	fruit contd.
electrical conductivity 4994	nitrogen nutrition 7351	russeting contd.
growth substances 8399	soil moisture 7351	dimethoate 1769
plant nutrition 4971	statistical techniques 8371	prevention, dimethoate 8383
potassium nutrition 4974	growth-yield relationships 4970	size, carbaryl 3423
rootstock compatibility 2555	grubbing 3341	thinning, carbaryl 974, 1784,
rootstock-scion relationships 3392,	hail	3422–3423, 8405–8406
8351	damage	-fungicides mixtures
soil management, methods compared	prevention	fruit
6538	nets 8355 economics 8356	ascorbic acid, content 2585
stem tissues, variability 2587	harvesting	sugars, content 2585
varietal resistance 6528 varieties 4187	containers, polystyrene, economics 980	growth, increase 48
USSR 924	mechanical	injury
water relations 6574	bibliography 7409	oil 4989
studies, artificial freezing techniques	branch	tetrachlorvinphos 4289
7396	injury	leaf sugars
fruiting	catching frames 2595	content
carbohydrates, metabolism 6579	shakers *2595	Kelthane 3418
irrigation 8359	catching frames 54, 977	Sevin 3418
precocity, rootstock-scion relationships	branch injury 2595	mite populations, DDT 5737
7312	fruit injury 2595 equipment 457	residues 3328
rootstock compatibility 2567 fungicides 3320	annual report, Canada 5695	arsenic 3329
as acaricides	fruit	determination
benomyl 5734	iniury	chlorpyrifos 4142
thiophanate 5734	catching frames 2595	monocrotophos 7302
thiophanate-methyl 5734	shakers 2595, 2633	fruit
disorder incidence, DPA 5005	loosening	chlorinated hydrocarbons 574
earthworm populations	ascorbic acid 975	methomyl 2507
benomyl 1752	growth substances 975	leaf, monocrotophos 615
captan 1752	mobile platform 3429	tolerance, oil 3411
thiabendazole 1752	Plukpony 4953	intercropping, oat-vetch mixture 2560 interstocks 3389
thiophanate 1752 enzyme activity, thiocarbamates,	shakers 978	comparative trials 3388, 6532, 653
Polymarcin, triarimol 6578	branch injury 2595 fruit injury 2595, 2633	leaf, nutrients, content 4183
fruit	windfalls 3430	Malling rootstocks 930
russeting 6560	mobile platform 6588	Melba 6535
benomyl 1747, 8391	packing, transport, storage, book 5706	M.8 6535
Enovit 8391	time of	M.9 6535
thiophanate-methyl 1747	fruit colour chart 1787–1788	root composition 1727
triarimol 1747	fruit maturity tests 1789–1790,	root systems 6535
thinning, thiram 974	3428, 6587	tree size 3387–3388
-insecticide mixtures	fruit storage quality 8422	iron content
application, reduced concentration 2585	fruit storage quality 8422 heat, resistance, rootstock-scion	leaf
fruit	relationships 8354	seasonal variations 6554
ascorbic acid, content 2585	herbicides	varietal differences 6554
sugars, content 2585	injury 7316	shoot
mite populations	dicamba 2495	seasonal variations 6554
captan 5737	dichlobenil 4997	varietal differences 6554
sulphur 1756	diuron 6543, 7357	irradiation
residues determination	metobromuron 7357 picloram 2495	gamma rays
benomyl 7609	leaf	disease control 982 fruit, post-harvest 984
binapacryl 7324	nitrogen, content, simazine 968	injury 3415–3416
folpet, captan, captafol 2505	sugars, content, simazine 968	mutation induction 5699
thiabendazole, benomyl 6501	residues	fruit russetting 963
thiophanate 7610	determination, 2,4-D 6514	pollen viability 3415
ethylenebisdithiocarbamates, fruit	soil	ionizing, mutation induction, fruit
4218	chlorthiamid, dichlobenil 6542	russetting 962
respiration, thiocarbamates, Polymarcin,	diuron 6543	irrigation 465
triarimol 6578 soil micro-organisms	simazine 6543	fertilizers, application 3394
benomyl 8391	root growth 1739	flower bud, initiation 5717 fruit, size 6544
Enovit 8391	dichlobenil 4997	fruiting 8359
grading	soil nutrient availability	furrow 5717
mechanical, roller 2532	atrazine 935	recommendations 1734
pre- and post-storage compared 6596	simazine 935	requirements 7358
size, consumer preference 7418	high density planting 7348	determination 6544
work studies 918	economics 7331	root, growth 7367
growing containers, fruiting 869	light interception 7354 rootstocks 8344	shoot, growth 6544 sprinkler 5717
dwarf trees 4182	Switzerland, statistics 8324	water distribution 6515
economics	varieties 8344	trickle 3394, 4189
Australia 1721	humidity, relative	lead
USA 921, 921	growth studies	determination 4389
high altitudes 5721	nitrogen nutrition 7351	residues 4936
India 7311	soil moisture 7351	light
Hungary 4173	leaf, composition 2586	absorption, pruning and training,
Japan 5709	nitrogen nutrition 2586	methods compared 4963
for juice 1738 Portugal, review 2518	hybrids	intensity
prostrate forms 5721	annual report, Tunisia 4944 apetallous 3420	carbohydrates, content 1731 fruit
terraced slopes 3391	insecticides 3318	colour 7354
orientation 4964	application, economics 4153	disorders 2605
root systems 4965	flower bud, development, dimethoate	size 7354
tropics 8335	6572	growth 1731
UK 3369	fruit	photosynthesis 3413
growth, inhibition, growth substances, abscisic acid 1777	russeting	pruning and training 7360
auscisic acid 1777	carbaryl 1784	water relations 8397

Subject Index		941
Apple contd.	Apple contd.	Apple contd.
light contd.	planting contd.	pruning and training contd.
interception	material contd.	fruit contd.
review 8357	virus-free 464	set 4197
rootstock-scion relationships 7356	mechanical 1726	size 2564, 4968
sunlight, reflection 2557	nutrient absorption 1773	growth-fruit relationships 941–943
transmission, tree canopies 7355	plant, size 3401	hedgerows 4196
magnesium	pruning before 1726	high density planting 1737, 3401
content leaf 6553	root removal 1726 soil, preparation, ploughing depth	economics 463
seasonal variations 6554	7359	light intensity 7360 mechanical 4230
shoot, seasonal variations 6554	spacing 932, 2547, 2550–2551, 3401,	equipment 4230, 5703
manganese	6536, 7347–7348	slotting saw 3396, 4196
content	economics 7331	methods compared 940, 3398, 5720,
leaf 6553	fruit, quality 2604	6546–6548, 7360, 7362–7363, 8364,
varietal differences 6554	light interception 7354, 8357	8366, 8379
shoot, varietal differences 6554 mulching	root systems 1740, 2548-2549 spraying equipment 3408	economics 7366 flowering 8363
clover-grass mixture clippings 936	survey, Switzerland 904	fruiting 4967, 7361, 7365–7366,
leaf, potassium content 938	systems	8363
clover-grass mowings 1736	compared 464, 4960	growth correlations 4967
lucerne hay 5718	economics 3398	light absorption 4963
sawdust 4191	light interception 4960, 8357	shoot growth 8363
soil, moisture 6550 mutants 5726, 6530	pollination 7403 trenches 7350	work studies 8365 nurseries, methods compared 7363,
mycorrhiza, soil, arsenic content 8373	water relations 1773	8348
nitrogen	pollen	palmette 2565-2566
absorption, nutrient solution,	germination	carbohydrates, metabolism 3399
composition 4975	nucleic acids 2651	photosynthesis 4185
content	temperature 7404	pinching, flower bud development
leaf 6553 seasonal variations 6554	viability, scions treatment, gamma rays 3415	7402
shoot, seasonal variations, varietal	pollen tube, growth, temperature 7404	post-prune growth 4966 prostrate forms 5721
differences 6554	pollination 6581	root growth 8372
varietal differences 6554	artificial 7405	regeneration 4192-4193
shoot	bees, Osmia cornifrons 1780	rootstock relationships 8364
seasonal variations 6554	cross- and self-compared 8404	shoot
varietal differences 6554	cross- and self- compared, fruit set	bending
water deficiency 4962 nucleic acids, applied, pollen, germination	2593 planting systems 7403	branching 939 bud dormancy 939
2651	pollinating varieties 481, 973, 7403,	phloridzin, content 4998
nutrient absorption	8408	spur formation 939
nitrogen, nutrition 466	supplementary 6582	sugars, metabolism 3414
nitrogen nutrition 4972	windbreaks 4222	water relations 960
planting 1773	potassium	shoot bending 7362
nutrients, content, leaf analysis 5726 orchard renewal, frameworking 4157	absorption, nutrient solution, composition 4975	growth substances, endogenous 8367 slender spindle 464, 4195, 5719
packing	content	time of 7364
containers	leaf 6553	frost injury 8362
polystyrene, economics 980	seasonal variations 6554	temperature 8368
types compared 5754	varietal differences 6554	transpiration 5741
damage 7307	shoot	tree orientation
fruit, pressure tolerance 2606 orientation, mechanical 55	seasonal variations 6554 varietal differences 6554	flowering 3417 growth reduction 3417
plastic, films 982, 5753	processing	varietal behaviour 4969, 5720,
before storage 8415	peeled fruit	8360–8361, 8364
vibration	ascorbic acid treatment 8420	water relations 5741
fruit damage elimination 1802	storage 8420	regeneration
fruit settlement in box 1803	production and trade	pruning 4193
phloridzin, content, shoot, bending 4998 phosphorus	EEC 3341 UK 3341	fruit composition 2564
content	USA, estimation, mathematical model	quality 2563
leaf 6553	7415	size 2564
seasonal variations 6554	products and by-products	leaf, chlorophyll 4192
varietal differences 6554	juice	photosynthesis 4192
shoot	chlorogenic acid, content 2609 fluorescence 2609	respiration 4192
seasonal variations 6554 varietal differences 6554	Oechsle values 5012	replanting 6551, 6561–6562 soil
metabolism, temperature 7401	quality 5012	fumigation 8381
photoperiodism, leaf, composition 50	proteins	nematode control 5728, 6570
photosynthesis	biosynthesis, temperature 50	soil micro-organisms 467, 6570, 7374
air movement 3413	content, water deficiency 4962	report
carbon dioxide uptake 6573 varietal differences 3412	metabolism ethylene biosynthesis 2590	Australia 3344 USA 8320
crown foliar density 7395	leaf, senescence 7400	respiration
drought 908	pruning and training 4194	fruit 52
fruiting relationships 4991, 6573	biennial 3397	calcium, content 1771
leaf-fruit relationships 5745	biennial bearing 4223	development 4993
light intensity 3413, 7395	Bramley's seedling. 8341	ethylene, production 56
pruning and training 4185, 4192, 7395	chemical disease control, <i>Podosphaera</i>	growth substances 5003 chlormequat 1786
rootstock-scion relationships 7356 rootstock vigour 2573	leucotricha 2576	IAA 1772
pigments, content, iron nutrition 6563	growth substances 6576	nitrogen, content 1771
planting	aminozide 1778, 3396, 5719	pollination 6581
bed systems 7347	NAA 2588	ripening 1772
high density 464, 1737, 2548, 3390,	TIBA 2588	storage, controlled atmosphere,
3401, 7348	economics 3398, 6548	ethylene 981
for juice production 1738	espalier 5719 fruit	treatment, gamma rays, post-harvest 7410–7411
Netherlands 1729	colour 3396	virus diseases 6565
Switzerland 904	composition 2564	plant
material	number 4968	drought 908
types compared 2568	quality 3396	fungicides 6578

Apple contd.	Apple contd.	Apple contd.
respiration contd.	storage contd.	tree contd.
pruning 4192	dips <i>contd.</i> injury <i>contd.</i>	size, light interception 8357 water potential, leaf, measurement 1774
flower bud, development 7402	methyl-thiophanate 990	water relations 8397
fruiting relationships 6545	rot control	chlorosis 8382
sugars, metabolism 3414	bordeaux 7413	dormancy 6521
sap, carbohydrates, content, seasonal variations 8403	zineb 7413 diseases 2601, 4227, 7413	frost resistance 6574 leaf, copper, content 1742
scoring	disorders 1795, 1798–1799	nitrogen content 38
flower, number 966	coatings, plastic 983	nutrition, seasonal variations 36–37
shoot, growth 966	growth substances 7408 pre-cooling 2597, 2600	planting 1773 pruning and training 5741
soilless culture, nutritional studies 4975 solar radiation, reflection 2557	volatile products 988	shoot, bending 960
spraying	fruit, quality, harvesting time	rootstocks 5741
equipment	1787–1788 fruit composition 7326	temperature 6537 varietal behaviour 2540
planting, spacing 3408 tower sprayer 2584	growth substances 7407	winter hardiness 6574
types compared, acaricides 2583	harvesting, date 8415	weed control 452, 2495, 2562,
methods compared 473 mites, predaceous, population studies,	organic acids, content 5748 packing methods compared 1791, 2596	6541-6543, 7316, 7357 annual report, Canada 5696
apple 957	pest incidence, Cydia pomonella 987	high density planting 464
programmes 7371	plastic bags 5747	nurseries 2561, 4188, 7316, 7357
statistical sampling, fruit 7330	pre-cooling 8415 disorders 2597, 2600	perennial weeds 1732 windbreaks, pollination 4222
techniques	equipment 2646	winter hardiness
growth studies 8371	rots 2597, 2600	boron nutrition 4976
mathematical model, disorder development 6595	quality cultural methods 6590	bud dormancy 6575 dormancy 6521
storage	environmental factors 6590	leaf removal 6521
ascorbic acid, content, wax coatings	rots 2597, 2600	grafting method 8352
8412 coatings, plastic 983–984	Pezicula malicorticis, incidence 5009 soil management 8415	measurement 6539 rootstocks 7352
cold	varietal behaviour 6601–6602	seed dormancy 2542
disease incidence 2598	ventilation, fruit disorders 989	water relations 6574
disorder incidence 1800–1801, 2598, 5005	water loss 1794 water removal from fruit in plastic	wound healing, treatments, Santar 4207 yield
fruit	bags, low temperature breakdown	correlations
colour 7411	487	climate 8349
composition, harvesting date 8422 enzyme activity 6592, 7412	wax coatings 2600, 8412 weight loss	statistical methods 5699 yield-growth relationships 4970
firmness, harvesting date 8422	varietal behaviour 5699	zinc
gas exchange 5004	wax coatings 8412	content
gas exchange 5004 relative humidity, disorder incidence,	wraps 8415 storage buildings, controlled atmosphere,	leaf seasonal variations 6554
disease incidence 4224	small unit 8414	varietal differences 6554
respiration, irradiation, gamma rays	sugars	shoot
7411 seed, composition 5712	metabolism leaf removal 3414	seasonal variations 6554 varietal differences 6554
temperature, disorder incidence,	ringing 3414	Apple bark, nutrients, content 5725
disease incidence 4224	shoot bending 3414	Apple bud
varietal behaviour 8413 containers 8415	temperature bud, development 1709	break, forecasting, temperature 2592 initiation, growth substances 6583
polystyrene, economics 980	bud break, forecasting 2592	Apple diseases
controlled atmosphere 5002	disorder incidence, watercore 8384	Agrobacterium tumefaciens 4206
chilling injury 1798 disease incidence 985, 2598	flowering, forecasting 2592	Alternaria alternata, post-harvest dips 5007
disorder incidence 1801, 2598, 4225	fruit, growth 6597	A. mali 7379
ethylene removal 981 fruit	phosphorus, metabolism 7401	A. spp. 1753
colour 2597	protein, biosynthesis 50 pruning and training, time of 8368	Aspergillus niger 2601 Australia 6518
composition 985	shoot, growth 6597	blotch 8388
enzyme activity 6592, 7412 firmness 2597	sums, flowering, date, forecasting 4961	Botrytis cinerea
flavour, irradiation, gamma rays	varietal behaviour 2540 tissue culture	fruit storage 485 post-harvest dips 5007
7410–7411	bud 1779	Botrytis spp.
quality 2597 hypobaric 7326	callus carbon sources 972	fruit storage 1798, 4224 post-harvest dips 986
packing methods compared 1791	grafting compatibility studies 3567	chat fruit, varietal incidence 4204
relative humidity	embryo 2591	chlorotic leaf spot 470
disease incidence 4224 disorder incidence 4224	media 2546 meristem 4184	incidence 8387 Rumania 8389
respiration 981	shoot 2552	USSR 8386
irradiation, gamma rays	shoot-tip, growth substances, treatment	indicator plants 8389
7410–7411 small unit 8414	3419 topworking	Colletotrichum dematium, pathogenicity 8515
dips 486, 3433	economics 8346	Diaporthe perniciosa 476
disease control 5750 Botrytis cinerea, Alternaria	methods 8347	Erwinia amylovora
alternata, Penicillium expansum	winter hardiness 8352 transpiration	alternative hosts 6519 German Democratic Republic 1746
5007	calcium, translocation 1775	varietal resistance 4208, 7336
Gloeosporium album 990 disease incidence, DPA 5008	pruning and training 5741	flat limb 4948, 7378
disorder control	rootstocks 5741 transport	fruit defects, graft transmissible 471 fruit rots 486, 4227
internal breakdown, calcium 3432	containers, polystyrene, economics 980	coatings, plastic 983
scald BHT 8419	damage 7307	controlled atmosphere storage 985
DPA 8419	crown foliar density, photosynthesis	irradiation 982 storage dips 5750
DPA, scald 1800	7395	fruit storage 4226
ethoxyquin, scald 1800 growth substances, GA 1797	height	Fusarium spp., fruit storage 4224
injury	estimation, aerial photography 4174 light interception 8357	Gloeodes pomigena 1750 Gloeosporium album 53, 990, 4985, 500
2-amino butane 990	shape, light interception 8357	fruit dips 3433

Subject Index		943
Apple diseases contd.	Apple diseases contd.	Apple disorders contd.
Gloeosporium contd.	Valsa mali contd.	low temperature breakdown contd.
G. fructigenum 5006 G. perennans 5006	varietal resistance 475 Venturia inaequalis 45, 53, 473, 954,	post-harvest sprays 5005 water removal 487
G. spp. 486	1747, 1751, 5731, 5734, 5751	physiological, fruit, potassium, content
control 8391	aerial spraying 7372	4975
fruit storage 1798, 5751	air pollution 4130	rosetting 1742
post-harvest dips 5751	control 4212, 6560, 6568, 7371, 8305,	zinc deficiency 948
Glomerella cingulata 1748–1749, 1754, 4209	8391, 8393, 8482 fungicides, mite populations 5737	russeting 951, 8383 review 4981
green crinkle 4948	post-harvest sprays 5733, 5735	spray injury 1747
Jubilee ring-and-line pattern 8388	forecasting 1751, 4212	scald 484-485, 488, 1787-1788, 1795,
leaf pucker 8388	incidence 7383	2597
host reactions 8390 indexing 8390	leaf invasion, histological studies 474 post-harvest foliar sprays 477	controlled atmosphere storage 4225
Macrophoma spp. 2577	post-harvest sprays 7389	development, mathematical model 6595
mosaic 4948, 6565	resistance 44, 5736	fruit, gas exchange 4225, 5004
Mycosphaerella pomi 952	varietal resistance 1722, 3374, 3377,	fruit dips 3433
Nectria galligena 5006 fruit storage 5751	7336, 8340, 8380 Virginia crab apple decline 1745	fruit storage 1800 fruit wax structure 6524
host benzoic acid, content 5755	virus	growth substances 8409
wound healing 4207	control 464, 7320	post-harvest dips 8419
Oidium farinosum 5734	heat treatment 2537	volatile products 988
Penicillium expansum fruit storage 485	fruit symptoms 2575 Golden Delicious 3405	soft scald, hexanol, content 7414 stem-cavity browning, fruit storage 1801
post-harvest dips 5007	host enzyme activity 8402	superficial browning, fruit storage 2599
storage diseases 5008	host reactions 2528, 4983	superficial scald, fruit maturity 989
P. spp. 7412	New Zealand 472, 4982	twig discoloration
control 7413 fruit storage 4224	-tested plants EMLA scheme 2528	iron nutrition 4203 manganese nutrition 4203
post-harvest dips 986	Special Stock Certification Scheme	various, soil management 6589
rot development 57	7320	vertical bark cracks 8351
Pezicula malicorticis, incidence 5009	German Democratic Republic 7321	water core
Phomopsis mali 1755 Phymatotrichum omnivorum 4257	yield reduction 7375 witches broom 6567	fruit calcium content 1771 growth substances 8409
Physalospora obtusa 1749	Apple disorders 1798	shoot carbohydrates, content 8384
control, cultural methods 7380	accelerated spoilage 5749	temperature 8384
incidence 6569	bitter pit 865, 2602–2603, 8417	Apple flower
P. spp., control 7413 Phytophthora cactorum 7382	calcium nutrition 947, 4990 calcium sprays 1796	bud calcium, content, biennial bearing 971
resistance, seasonal variations 7381	fruit, size 2605	nitrogen, content, biennial bearing 971
varietal resistance 7381	growth substances	potassium, content, biennial bearing
platycarpa dwarf	aminozide 1796	971
incidence, Rumania 8389 indicator plants 8389	ethephon 1796 incidence 6557	bud development fungicides 6572
platycarpa scaly bark 7378	light, intensity 2605	leaf removal 7402
incidence 8387	nitrogen nutrition 4972	pruning and training 939, 7402
Rumania 8389	review 6593	ringing 7402
indicator plants 8389 Podosphaera leucotricha 45, 473, 1747,	varietal resistance 950 breakdown, calcium nutrition 3431	bud distribution on shoots, rootstocks 3392
3408, 4210–4211, 5731–5732, 7386	brown core, fruit storage 1801	bud initiation 5742
chemical pruning 2576	chlorosis 6563	fruit thinning 3422
control 6560, 7323, 7384–7385, 7387–7388, 8391, 8482	leaf composition 4203, 4947, 4977	irrigation 5717 nitrogen nutrition 947, 8368
damage 953	lime-induced 949	time 4999
incidence 7383	manganese nutrition 4203, 4977	nitrogen nutrition, phosphorus
resistance 2539	nitrogen nutrition 4977	nutrition, soil management,
rootstock resistance 8345	shoot composition 1741 water relations 8382	rootstocks 2530 number
varietal resistance 953, 3377, 7336, 8380	zinc nutrition 4977	growth substances 8398
proliferation 4948, 7376	core flush 1795, 4224	aminozide 966
detection 3406	cork spot 469	nitrogen nutrition 8368
histology 4984 leaf composition 6566, 7377	flesh breakdown 1795 flesh browning 4224	Apple flowering date, forecasting, temperature sums 2593
Pseudomonas syringae 3407	fruit malformation, nutrients content 468	temperature 2593
ring russeting 6564	fruit pitting 469	Apple fruit
ring spot 4948	internal bark necrosis iron nutrition 4203	abscission growth substances
rough skin 4948 rubbery wood 4948	manganese nutrition 4203	aminozide 1783
incidence, Rumania 8389	internal breakdown 3432	ethephon 1783
indicator plants 8389	calcium metabolism 4221	fenoprop interaction 976
russet ring 4948, 6565 scar skin 4948	fruit calcium content 1771 growth substances	acidity disease incidence, <i>Macrophoma</i> spp.
Sclerotinia fructigena, fruit storage 5751	aminozide 976	2577
S. spp., control 7413	ethephon 976	growth substances 3425
Spy 227 epinasty and decline	internal browning 1799	amino acids, content, nitrogen nutrition
incidence 8387 Rumania 8389	enzyme activity 7412 nitrogen nutrition 947	7370 anatomy, russetting 963
USSR 8386	Jonathan spot 484, 2600	aroma 6604
indicator plants 8389	controlled atmosphere storage 985	ascorbic acid
stem grooving 470	fruit, storage 2598	content
incidence, Rumania 8389 indicator plants 8389	growth substances 7408 incidence 7373	controlled atmosphere storage 985 disease resistance, Venturia inaequalis
stem pitting 7378	leaf scorch 4979	5736
incidence, Rumania 8389	lenticel rot 4980	geographical location 6600
indicator plants 8389	lenticel spot 2597, 2602–2603	latitude 7417, 7417
Stereum purpureum 8392 rootstock resistance 8345	longitudinal trunk bark cracking 6533 low temperature breakdown 1787–1788	nitrogen nutrition 8378, 8415 spray concentration 2585
storage rots 1747	biochemistry 8418	varietal differences 7416–7417, 7417
Trichothecium spp., control 7413	calcium nutrition 1793, 5005	zinc nutrition 5011
Valsa mali	fruit, pigments 6594	browning, peeled fruit 8420
boron nutrition 475 nitrogen nutrition 475	growth substances 7408 GA 1797	calcium content 4201

Apple fruit contd.	Apple fruit contd.	Apple fruit contd.
calcium contd.	loosening	russeting contd.
content contd. fruit disorders 469, 3431	ascorbic acid 975 growth substances 975	susceptibility 42 sampling, methods 7330
respiration 1771	magnesium	set
seasonal variations 7351	content	acaricides 7371
varietal differences 6606	calcium nutrition 5005	fungicides 7371
zinc nutrition 5011	seasonal variations 7351	growth substances 7405
carbohydrates	maturity 6585	GA, BA 1782 gibberellins 1781
content seasonal variations 5010	growth substances aminozide 976	insecticides 7371
storage 5010	ethephon 976	Panonychus ulmi 7371
cell wall	starch, content 3428	pollination 2593, 7405, 8408
composition 6603	tests 1789–1790, 3427, 8410	pruning and training 4197 shape 55, 7408
permeability	nitrogen content	growth substances, GA, BA 1782
calcium 8417	calcium nutrition 5005	size
cold storage 8417 ripening 8417	respiration 1771	biennial pruning 3397
colour 7408	seasonal variations 7351	breeding and selection 460
biennial pruning 3397	number nitrogen nutrition 8368	consumer preference 7418 green manuring 6550
calcium nutrition 4980	potassium imbalance 4975	growth substances 6583
growth substances 3425, 5746, 6583,	pruning and training 4968	SADH 5001
8409	nutrients, content, fruit malformation	insecticides, carbaryl 3423
aminozide 1796 ethephon 976, 1796	468 organic acids	light intensity 7354 planting, spacing 3390
fenoprop 976	content	pruning and training 2564, 4968
harvesting time 1787-1788	controlled atmosphere storage 985	soil, moisture 3395
leaf nutrients content 6599	seasonal variations 6522	thinning 3422
light intensity 7354	storage 5748 pectins, content, geographical location	specific gravity 8421 starch, content, maturity tests 3428
nitrogen nutrition 6605, 8368 pruning and training 3396	6600	storage, diseases, <i>Penicillium</i> spp. 57
methods compared 3398	peel	sugars
storage	thickness	content
cold 7411	boron nutrition 6559	pest incidence 1760
controlled atmosphere 981 composition 7327	manganese nutrition 6559 phosphorus	seasonal variations 6522 spray concentration 2585
carbohydrates, varietal differences 60	content	tannins, content, geographical location
flavour components 1804	calcium nutrition 5005	6600
flavour relationships 6598–6599	varietal differences 6606	thinning 3422
growth substances 8409 nitrogen nutrition 6605, 8378	physical characteristics 55 pigments 58	growth substances NAA 974, 1785
organic acids	disorder incidence, low temperature	tree physiological condition 1785
varietal differences 60	breakdown 6594	NAD 974, 1784
virus diseases 6565	distribution 4177	insecticides, carbaryl 1784, 3423,
pollination 973 pruning and training 2564	potassium content	8405–8406 russeting 2574
soil management 6601–6602	organic acids, biosynthesis 4975	vitamins, content 3339
storage, controlled atmosphere,	seasonal variations 7351	volatile constituents 6604
hypobaric 7326	varietal differences 6606	volatiles, production, calcium nutrition
varietal differences 4228 zinc nutrition 5011	proteins, biosynthesis, calcium content 1771	1793 water, content, storage 1794
cuticle 2607	quality	water loss, storage 1794
structure 6524	assessment, optical density 3434	wax
development 8405	evaluation 488, 2608	composition 2607
enzyme activity 4993 growth substances 6576	foliar nutrition 8376 fungicides, Bavistin 5731	structure 922, 6524 Apple fungicides
after injury 8407	growth substances, review 1792	as acaricides
respiration 4993	insecticides 48	Acrex 6571
drop	leaf nutrients content 6599	Acricid 6571
growth substances 3421, 5000, 5746, 6583, 7405–7406	pruning and training 2563, 3396 methods compared 3398	Morestan 6571 Apple growth substances
aminozide 1783, 3401	review 6597	absorption, abscisic acid 1777
NAA 3426	soil, moisture 3395	apical dominance, BA 965
2,4,5-TP 3426	soil management 6589, 6601–6602	application
ethylene concentration, submersion 3837	variability 2608 varieties 59	small quantities
production 3837	respiration	aminozide 5710 2,4-D 5710
growth substances 5003	growth substances	bud, initiation, aminozide 6583
ABA 975	aminozide 1783	calcium, translocation, TIBA 961
firmness growth substances 3425, 6583	ethephon 1783	cuttings
aminozide 976	virus diseases 6565 ripening	treatment GA 2543
ethephon 976, 1783	biochemistry 3427	IBA 2543
fenoprop 976	ethylene, production 56	disease control
SADH 482 flavour 1804, 6599	growth substances 5746, 7406–7407,	Off-Shoot O 2576
evaluation, methods 6598	8409 pigments 52	Off-Shoot T 2576 disorder incidence, ethephon 8409
irradiation, gamma rays, post-harvest	sunlight 61	dormancy, induction, abscisic acid 4220
7410–7411	russeting 1769	dwarfing, aminozide 966
varieties 59	anatomy 963	endogenous
evaluation 3376 frost, injury 964	evaluation method 41 fruit, thinning 2574	biosynthesis 923 bud 5742
fumigation, injury, 2-amino butane 990	fungicides 8391	dormancy 6575
gas permeability, determination 959	Golden Delicious 61	cuttings, rooting capacity 926
growth substances 7408	growth substances, SADH 482	leaf 920, 4995
growth substances 7408 hexanol, content, disorder incidence, soft	insecticides carbaryl 1784	temperature 2553 root 4219, 4995, 7399
scald 7414	tetrachlorvinphos 4289	temperature 2553
injury, phellogen development 8407	prevention, insecticides, dimethoate	seed 2523, 3380
irradiation, gamma rays, post-harvest, storage life 2601	8383	shoot 4995, 7399
-leaf relationships, photosynthesis 5745	spray concentration 6560 spraying equipment 3408	determination 1776
1	-p)g oquiptoit 5 700	pruning and training 8367

Apple growth substances conted. shoot apices 47 ethylene production ABA 975 chlorinequat 1786 ABA 975 chlorinequat 1786 mumber aminozide 966 mumber aminozide 966 mumber aminozide 966 mumber aminozide 398 flowering aminozide 347 GA 3417 morphactins 5743 ABA 9342 femporpo interaction 976 enoprop piteraction 976 enological 1783 ethephon 1783 femporpo piteraction 976 enological profit 1783 ethephon 1783 femporpo piteraction 976 enological profit 1783 ethephon 1783 femporpo piteraction 976 enorpop 976, 3425 ethephon 1796 NAA 9505 phloridzin 5005 phloridzin 5000 phloridzin 5005 phloridzin 5000 phloridzin	
shoot apices 47 cthylene production ABA 975 chlormequat 1786 IAA 5003 flowIng aminozide 1786 IAA 5003 flowEng aminozide 8398 flowering aminozide 8398 flowering aminozide 8398 flowering aminozide 8398 flowering aminozide 8399 fruit an abecision abplied abscisse acid, and endogenous 2553 morphactins, NAA + BA application applied abscisse acid, and endogenous 2553 morphactins, NAA + BA application abscissor 5743 NAD 3421 morphactins 5743 NAD 3427 frost resistance, aminozide 8399 fruit abscissor 1783 fenoprop interaction 976 reacidity, aminozide, ethephon, fenoprop 3425 colour aminozide 1796, 3425, 5746, 6583, 7408 chebron 1796 composition, ethephon 8409 development, aminozide 6576 disorders and 1796, 7408 chebron 1796 ONAA 2598 NAA 3600 NAA 3600 NAA 3600 NAA 3600 NAA 3421 TIBA 5000 NAA 3420 TIBA 5000 NAA 3420 TIBA 500 NAA 3420 TIBA 500 NAA 3420 TIBA 500 NAA 3	
ethephon 7314 ANA 975 ANA 975 aminozide 976 Alsa 975 cyclobeximide 976 Aska 975 aminozide 1786 Alsa 975 aminozide 1786 Alsa 975 aminozide 1786 Alsa 975 aminozide 986 Alsa 975 aminozide 1783 aminozide 1783 aminozide 1783 aminozide 1796, 3425, 5746, 6583 chephon 976, 1796, 3425, 5746 Ga 5000, 7405 Alsa 975 aminozide 976, 3425 ASADH 482, aminozide 1783 aminozide 1786, 3426, 5000, 5746 Alsa 975 aminozide 976, 3425, 683 aminozide 976, 3425, 683 aminozide 976, 3425, 683 aminozide 976, 3425, 683 aminozide 976, 3425, 683 aminozide 976, 3425, 683 aminozide 976, 3425, 683 aminozide 976, 7408 chephon 1786 Alsa 975 aminozide 976, 7408 chephon 1786 Alsa 975 aminozide 976, 7408 chephon 1786 Alsa 975 aminozide 976, 7408 chephon 1786 Alsa 975 aminozide 976, 7408 chephon 1786 Alsa 975 aminozide 976, 7425, 683 aminozide 976, 74325 chorosis 8 and 8 a 800 Alsa 3421, 3426, 5000, 5746 Alsa 975 aminozide 976, 7425, 683 aminozide 976, 7425, 683 aminozide 976, 7425, 683 aminozide 976, 7425, 683 aminozide 976, 74325 aminozide 976, 74325 aminozide 976, 74325 aminozide 1786, 7408 chephon 1786 Alsa 975 aminozide 976 aminozide 1786, 7408 chephon 1786 Alsa 975 aminozide 976, 7408 chephon 1786 Alsa 975 aminozide 976, 7408 chephon 976, 1783, 3425, 683 aminozide 976, 74325 aminozide 1786, 7408 chephon 976 Alsa 976 Alsa 977 Apple leaf aminozide 976 aminozide 1786, 7408 chephon 976 aminozide 1786, 7408 chephon 976 Alsa 976 Alsa 976 Alsa 976 Alsa 977 Apple leaf aminozide 976 aminozide 976 aminozide 976 aminozide 976 aminozide 1786 aminozide 976 aminozide 1786 am	
Production	
ABA 975 chlormequat 1786 1AA 5003 TIBA 5003 flower number, aminozide 966 number aminozide 8398 flowering GA 3417 GA 3417 morphacitins 5743 NAD 3424 Tost resistance, aminozide 8399 fruit abscission aminozide 1783 ethephon 1783 fenoprop pinteraction 976 commostine 1796, 3425, 5746, 6583 ethephon 976, 1796, 3425, 5746, 6583 chephon 1796 NAA 5000 phloridzin 5000 NAA 3421, 3426, 5000, 5746 NAA 3421, 3426, 5000, 5746 NAA 3421, 3426, 5000, 5746 NAA 3420 characteristic or 976 disorders aminozide 1796, 7408 ethephon 1796 GA 5000, 7405 LA 5000 NAA 3421, 3426, 5000, 5746 NAA 3420 chemical 1786, 7408 ethephon 1786 GA 5000, 7405 LA 5000 NAA 3421, 3426, 5000, 5746 NRA 3420 Concentration of the properties and the pr	
chiormequat 1786 IAA 5003 IAS 5003 flower number, aminozide 966 number aminozide 8398 flowering aminozide 3417 GA 3417 morphactins 5743 NAA 2588 floorening aminozide 1783 ethephon 1783 fenoprop interaction 976 acidity, aminozide, ethephon, fenoprop 3425 colour aminozide 1796, 3425, 5746, 6583, 7408 ethephon 976, 1796, 3425, 5746, 6583 cytokinins 5000 NAA 2500 Advelopment, aminozide 6576 disorders aminozide 1796, 4408 ethephon 1796 aminozide 1796, 4408 ethephon 1796 aminozide 1796, 4408 ethephon 1796 aminozide 1796, 3425, 5746, 6583 cytokinins 5000 NAA 2500	
TIBA 5003 flower number, aminozide 966 number aminozide 966 number aminozide 8398 flowering aminozide 3417 GA 3417 morphactins 5743 NAD 3424 frost resistance, aminozide 8399 fruit abscission aminozide 1783 aminozide 1783 etiphon 1783 flooppop interaction 976 acidity, aminozide ethephon, fenoprop acidity, aminozide 1796, 3425, 5746, 6583, 7408 ethephon 976, 1796, 3425, 5746, 6583, 7408 ethephon 1796 NAA 5005 phloridizin 5005 drop aminozide 1783, 3401, 5746, 6583 cytokinin 5000 drop aminozide 1783, 3401, 5746, 6583 cytokinin 5000 drop aminozide 1783, 3401, 5746, 6583 ethephon 976, 1783, 3425, 6583 ethephon 976 aminozide 1783, 3401, 5746, 6583 aminozide 1788, 3401, 5746, 6583 and 1783 antinozide 1783, 3401, 5746, 6583 ethephon 976 antinozide 1783, 3401, 5746, 6583 ethephon 976 antinozide 1783, 3401, 5746, 6583 ethephon 976 antinozide 1783, 3401, 5746, 6583 ethephon 976 antinozide 1783, 3401, 5746, 6583 ethephon 1783 antinozide 1783, 3401, 5746, 6583 ethephon 976 antinozide 1783, 3401, 5746, 6583 ethephon 976 antinozide 1783, 3401, 5746, 6583 ethephon 976 antinozide 1783, 3401, 5746, 6583 ethephon 976 antinozide 1783, 3401, 5746, 6583 ethephon 976 antinozide 1783, 3401, 5746, 6583 ethephon 976 antinozide 1783, 3401, 5746, 6583 ethephon 976 antinozide 1783, 3401, 5746, 6583 ethephon 976 antinozide 1783, 3401, 5746, 6583 ethephon 976 an	
TIBA 5003 flower number, aminozide 966 number aminozide 8398 flowering aminozide 3417 GA 3417 morphactins 5743 NAD 3424 Pruning aminozide 1783 ethephon 1783 ethephon 1783 ethephon 1783 ethephon 1783 ethephon 976, 1425 collour aminozide 1796, 3425, 5746, 6583, 7408 ethephon 1796 floorprop 976, 3425 composition, ethephon ethephon, floorprop 976, 3425 composition, ethephon 1796 gaminozide 1796, 4028 ethephon 1796 propop aminozide 1796, 4028 ethephon 1796 floorprop 976, 3425 composition, ethephon fossa, 7408 ethephon 1796 floorprop 976, 3425 composition, ethephon fossa, 7408 ethephon 1896 floorprop 976, 3425 composition, ethephon fossa, 7408 ethephon 1896 floorprop 976, 3425 composition, ethephon fossa, 7408 ethephon 1896 floorprop 976, 3425 composition, ethephon fossa, 7408 ethephon 1896 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3426 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976, 3425 floorprop 976 floorprop	
number aminozide 966 number aminozide 8398 flowering aminozide 3417 GA 3417 morphactins 5743 NAD 3424 NAD 3424 NAD 3424 Pruning aminozide 1783 ethephon 1783 ethephon 1783 fenoprop pinteraction 976 acidity, aminozide ethephon, fenoprop 3425 colour aminozide 1796, 3425, 5746, 6583, 7408 ethephon 976, 1479 fenoprop 976, 3425 z, 4,3-TP 5746 composition, ethephon 8409 development, aminozide 6576 disorders: aminozide 1796, 4425 saminozide 1796 saminozide 179	
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disorders aminozide 1796, 7408 aminozide 1796, 7408 aminozide 1796, 7408 aminozide 1796, 7408 aminozide 1796, 7408 aminozide 1796, 7408 chlormequat 4996, 6577, 8398 chlormequat 4996, 6577, 8398 NAA 5005 phloridzin 5005 drop aminozide 1783, 3401, 5746, 6583 cytokinins 5000 ethephon 6583, 7406 GA 5000, 7405 NAA 3421, 3426, 5000, 5746 NRL 3421 TIBA 5000 2,4,5-TP 5746, 3426 firmness aminozide 976, 3425, 6583 ethephon 976, 1783, 3425, 6583 fenoprop 976, 3425 SADH 482 flavour, 2,4,5-TP, aminozide, NAA, ethephon 5746 loosening ABA 975 cycloheximide 975 ethephon 975 NAA 975 maturity aminozide 976 ethephon 976 quality review 1792 aminozide 4996, 6577, 8398 chlormequat 4996, 6577, 8398 chlormequat 4996, 6577, 8398 chlormequat 4996, 6577, 8398 chlormequat 4996, 6577, 8398 chlormequat 4996, 6577, 8398 chlormequat 4996 phorize A996 NAA 5005 phorize Phosphon D 8398 vegetable oils 4996 magnesium absorption 5730 potassium absorption 5730 boron fruit, peel thickness 6559 leaf chlorophyll, content 4976 pigments, content 4976 calcium absorption 5730 toxicity 5730 boron fruit, peel thickness 6559 leaf chlorophyll, content 4976 pigments, content 4976 calcium absorption 5730 toxicity 5730 boron fruit, peel thickness 6559 leaf chlorophyll, content 4976 pigments, content 4976 pigments, content 4976 pigments, content 4976 pigments, content 4976 calcium absorption 5730 doxicity 5730 boron fruit, peel thickness 6559 leaf chlorophyll, content 4976 pigments, content 4976 leaf analysis 3402 vointer hardiness 4976 calcium absorption 5730 absorption 5730 absorption 5730 absorption 5730 potassium absorption 5730 potassium absorption 5730 potassium absorption 5730 potassium absorption 5730 potassium absorption 5730 potasium abs	
aminozide 1796, 7408 chlormequat 4996, 6577, 8398 rethephon 1796 NAA 5005 phloridzin 5005 phloridzin 5005 phloridzin 5005 aminozide 1783, 3401, 5746, 6583 cytokinins 5000 cthephon 6583, 7406 GA 5000, 7405 NAA 3421, 3426, 5000, 5746 NAA 3421, 3426, 5000, 5746 NRL 3421 TIBA 5000 2,4,5-TP 5746, 3426 firmness aminozide 976, 3425, 6583 ethephon 976, 1783, 3425, 6583 ethephon 5746 loosening ABA 975 cycloheximide 975 cycloheximide 975 ethephon 975 NAA 975 maturity aminozide 976 ethephon 976 maturity aminozide 976 ethephon 976 cycloheximide 976 ethephon 976 maturity aminozide 976 ethephon 976 ethephon 976 cycloheximide 976 ethephon 976	
ethephon 1796 NAA 5005 phloridzin 5005 phloridzin 5005 drop aminozide 1783, 3401, 5746, 6583 cytokinins 5000 ethephon 6583, 7406 NAA 3421, 3426, 5000, 5746 NAL 3421 TIBA 5000 2,4,5-TP 5746, 3425 firmness aminozide 976, 3425, 6583 fenoprop 976, 1783, 3425, 6583 fenoprop 976, 3425 SADH 482 flavour, 2,4,5-TP, aminozide, NAA, ethephon 5746 loosening ABA 975 cycloheximide 975 cycloheximide 975 maturity aminozide 976 ethephon 976 maturity aminozide 976 ethephon 976 maturity aminozide 976 ethephon 976 maturity aminozide 976 ethephon 976 maturity aminozide 976 ethephon 976 cycloheximide 976 ethephon 976 ethephon 976 cycloheximide 976 ethephon 976 ethephon 976 cycloheximide 976 ethephon 976 ethephon 976 ethephon 976 cycloheximide 976 ethephon 976 ethephon 976 ethephon 976 cycloheximide 976 ethephon 976 ethephon 976 cycloheximide 976 ethephon 976 ethephon 976 cycloheximide 976 ethephon 976 ethephon 976 cycloheximide 976 ethephon 976 cycloheximide 976 ethephon 976 ethephon 976 cycloheximide 976 ethephon 976 cycloheximide 976 ethephon 976 ethephon 976 cycloheximide 976 ethephon 976 ethephon 976 cytokinin, tissue culture 3419 cytokinin, tissu	
NAÀ 5005 phloridzin 5005 drop aminozide 1783, 3401, 5746, 6583 cytokinins 5000 ethephon 6583, 7406 GA 5000, 7405 IAA 5000 NAA 3421, 3426, 5000, 5746 NRL 3421 TIBA 5000 2,4,5-TP 5746, 3425 firmness aminozide 976, 3425, 6583 fenoprop 976, 1783, 3425, 6583 fenoprop 976, 3425 SADH 482 flavour, 2,4,5-TP, aminozide, NAA, ethephon 5746 loosening ABA 975 cycloheximide 975 cycloheximide 975 ethephon 975 NAA 975 maturity aminozide 976 ethephon 976 ethephon 976 content 928 fruiting relationships 6573 pruning 4192 composition anatomy amagnesium absorption 5730 boron fruit, peel thickness 6559 leaf chlorophyll, content 4976 pigments, content 4976 c	
phloridzin 5005 drop aminozide 1783, 3401, 5746, 6583 cytokinins 5000 ethephon 6583, 7406 GA 5000, 7405 IAA 5000 NAA 3421, 3426, 5000, 5746 NRL 3421 TIBA 5000 2,4,5-TP 5746, 3426 firmness aminozide 976, 3425, 6583 ethephon 976, 1783, 3425, 6583 fenoprop 976, 1783, 3425, 6583 fenoprop 976, 3745 ABA 975 maturity aminozide 976 quality review 1792 shoot anatomy BA 8400 GA 8400 GA 8400 morphactins 8400 NAA 8400 growth aminozide 3401 cytokinin, tissue culture 3419 GA, 797 Apple leaf area, planting, spacing 3390 calcium, content, biennial bearing 970-971 cell sap, concentration, seasonal variations ochlorosphyll content 928 fruiting relationships 6573 pruning 4192 disorders 1793, 3431 volatiles, production 1793 leaf analysis 3402 placement 40 methods compared, root gro	
aminozide 1783, 3401, 5746, 6583 cytokinins 5000 cthephon 6583, 7406 GA 5000, 7405 IAA 5000 NAA 3421, 3426, 5000, 5746 NRL 3421 TIBA 5000 2,4,5-TP 5746, 3426 firmness aminozide 976, 3425, 6583 ethephon 976, 1783, 3425, 6583 fenoprop 976, 3425 SADH 482 flavour, 2,4,5-TP, aminozide, NAA, ethephon 5746 loosening ABA 975 cycloheximide 975 cycloheximide 975 nAAA 975 maturity aminozide 976 aminozide 976 cethephon 976 normphactins 8400 NAA 8400 norphactins 8400 NAA 8400 prowth aminozide 3401 cytokinin, tissue culture 3419 collium 3419 collium 3419 collium 3419 collium 3419 collium, content, biennial bearing 970-971 fruit, peel thickness 6559 leaf chlorophyll, content 4976 pigments, content 4976 collium 3419 colcium absorption 1741, 5730 application, with plant protecta 4990 deficiency cork spot 469 fruit disorders 2602-2603 fruit disorders 2602-2603 fruit disorders 2602-2603 fruit pitting 469 disorder incidence 5005 bitter pit 8417 colour 4980 fruit cell wall permeability 8417 colour 4980 disorder 1793, 3431 volatiles, production 1793 leaf analysis 3402 placement 40 pigments, content 4976 calcium absorption 1741, 5730 application, with plant protecta deficiency cork spot 469 fruit di	
cytokinins 5000 ethephon 6583, 7406 GA 5000, 7405 IAA 5000 NAA 3421, 3426, 5000, 5746 NRL 3421 TIBA 5000 2,4,5-TP 5746, 3426 firmness aminozide 976, 3425, 6583 ethephon 976, 1783, 3425, 6583 fenoprop 976, 3425 SADH 482 flavour, 2,4,5-TP, aminozide, NAA, ethephon 5746 closening ABA 975 cycloheximide 975 cycloheximide 975 ethephon 976 maturity aminozide 976 aminozide 976 aminozide 976 aminozide 976 chlorophyll, content 4976 pigments, content 4976 leaf analysis 3402 winter hardiness 4976 calcium absorption 1741, 5730 application, with plant protecta 4990 deficiency fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit pitting 469 disorder incidence 5005 bitter pit 8417 cell sap concentration, pruning 4193 chlorophyll content 928 fruiting relationships 6573 pruning 4192 composition chlorosis 8382 hydroxybenzoic acids 51 promoterite 4976 pigments, content 4976 leaf analysis 3402 pigments, content 4976 pigments, content 4976 leaf analysis 3402 pigments, content 4976 pigments, content 4976 leaf analysis 3402 pigments, content 4976 pigments, content 4976 leaf analysis 3402 pigments, content 4976 pigments, content 4976 leaf analysis 3402 pigments, content 4976 pigments, content 4976 leaf analysis 3402 pigments, content 4976 leaf analysis 3402 pigments, content 4976 leaf analysis 3402 pigments, content 4976 pigments, content 4976 leaf analysis 3402 pigments, content 4976 leaf analysis 3402 pigments, content 4976 leaf analysis 3402 pigments, content 4976 leaf analysis 3402 pigments, content 4976 leaf analysis 3402 pigments, content 4976 leaf analysis 3402 pigments, content 4976 leaf analysis 3402 pigments, content 4976 leaf analysis 3402 pigments, content 4976 leaf analysis 3402 pigments columners 4976 calcium absorption 1741, 5730 application, with plant protecta deficiency fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorde	
ethephon 6583, 7406 GA 5000, 7405 IAA 5000 NAA 3421, 3426, 5000, 5746 NRL 3421 TIBA 5000 2,4,5-TP 5746, 3426 firmness aminozide 976, 3425, 6583 ethephon 976, 1783, 3425, 5583 fenoprop 976, 3425 SADH 482 flavour, 2,4,5-TP, aminozide, NAA, ethephon 5746 loosening ABA 975 cycloheximide 975 ethephon 975 NAA 975 maturity aminozide 976 maturity aminozide 976 ethephon 976 maturity aminozide 976 ethephon 976 maturity aminozide 976 ethephon 976 cycloheximide 976 ethephon 976 ethephon 976 chloropsition chlorosis 8382 quality review 1792 methods oon, 7406 mannozide 3401 mannozide 3419 storage disorders ethepton 976 GA, tissue culture 3419 storage disorders ethephon 976 GA 1797 aminozide 3401 storage disorders ethephon 976 GA 1797 Apple leaf area, planting, spacing 3390 cork spot 469 fruit disorders 2602–2603 fruit pitting 469 disorder incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders 1793, 3431 volatiles, production 1793 leaf analysis 3402 pigments, content 4976 pigments, content 4976 pigments, content 4976 pigments, content 4976 pigments, content 4976 pigments, content 4976 pigments, content 4976 pigments, content 4976 pigments, content 4976 pigments, content 4976 pigments, content 4976 leaf analysis 3402 winter hardiness 4976 calcium absorption 1741, 5730 application, with plant protecta 4990 deficiency cork spot 469 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit pitting 469 disorder incidence 5005 bitter pit 8417 colour 4980 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit pitting 469 disorders 1793, 3431 volatiles, production 1793 leaf analysis 3402 pigments, content 4976 each analysis 3402 pigments, content 4976 pigments, content 4976 leaf analysis 3402 pigments, content 4976 pigments, content 4976 leaf analysis 3402 protectal 4990 deficiency cork spot 469 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit	
GA 5000, 7405 IAA 5000 NAA 3421, 3426, 5000, 5746 NRL 3421 TIBA 5000 2,4,5-TP 5746, 3426 firmness aminozide 976, 3425, 6583 ethephon 976, 1783, 3425, 6583 fenoprop 976, 3425 SADH 482 flavour, 2,4,5-TP, aminozide, NAA, ethephon 5746 loosening ABA 975 cycloheximide 975 cycloheximide 975 cycloheximide 975 nAA 975 maturity aminozide 976 analysis 3402 cytokinin, tissue culture 3419 calcium absorption 1741, 5730 application, with plant protecta 4990 deficiency cork spot 469 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disor	
IAA 5000 NAA 3421, 3426, 5000, 5746 NAA 3421, 3426, 5000, 5746 NRL 3421 TIBA 5000 2,4,5-TP 5746, 3426 firmness aminozide 976, 3425, 6583 ethephon 976, 1783, 3425, 6583 fenoprop 976, 3425 SADH 482 flavour, 2,4,5-TP, aminozide, NAA, ethephon 5746 closening ABA 975 cycloheximide 975 cycloheximide 975 ethephon 975 NAA 975 maturity aminozide 976 maturity aminozide 976 ethephon 976 ethephon 976 ethephon 976 chlorosis 8382 quality review 1792 growth aminozide 3401 cytokinin, tissue culture 3419 aminozide 3490 GA, tissue culture 3419 storage disorders ethephon 976 GA 1797 Apple leaf area, planting, spacing 3390 calcium, content, biennial bearing 970-971 cell sap, concentration, seasonal variations 916 cell sap concentration, pruning 4193 chlorophyll content 928 fruiting relationships 6573 pruning 4192 composition chlorosis 8382 hydroxybenzoic acids 51 promoterity for outer 4080 pigments, content 4976 leaf analysis 3402 winter hardiness 4976 calcium absorption 1741, 5730 application, with plant protecta 4990 deficiency fruit disorders 2602–2603 fruit disorders 2602–2603 fruit pitting 469 disorder incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders 1793, 3431 volatiles, production 1793 leaf analysis 3402 placement 40 piccontent 28 pruning 4192 minozide 563	
NAA 3421, 3426, 5000, 5746 NRL 3421 TIBA 5000 2,4,5-TP 5746, 3426 firmness aminozide 976, 3425, 6583 ethephon 976, 1783, 3425 SADH 482 flavour, 2,4,5-TP, aminozide, NAA, ethephon 5746 loosening ABA 975 cycloheximide 975 ethephon 975 NAA 975 maturity aminozide 976 maturity aminozide 976 ethephon 976 maturity aminozide 976 ethephon 976 ethephon 976 maturity aminozide 976 ethephon 976 ethephon 976 ethephon 976 ethephon 976 hlorophyll eminozide 3401 cytokinin, tissue culture 3419 storage disorders ethephon 976 GA 1797 Apple leaf area, planting, spacing 3390 calcium, content, biennial bearing 970-971 cell sap, concentration, seasonal variations 916 cell sap concentration, pruning 4193 chlorophyll content 928 fruit ing relationships 6573 maturity aminozide 976 ethephon 976 ethephon 976 chlorosis 8382 hydroxybenzoic acids 51 review 1792 leaf analysis 3402 winter hardiness 4976 calcium absorption 1741, 5730 application, with plant protecta 4990 deficiency cork spot 469 fruit disorders 2602-2603 fruit pitting 469 disorder incidence 5005 bitter pit 8417 cell wall permeability 8417 colour 4980 disorders 1793, 3431 volatiles, production 1793 leaf analysis 3402 minozide absorption 1741, 5730 application, with plant protecta 4990 deficiency cork spot 469 fruit disorders 2602-2603 fruit gitting 469 disorder incidence 5005 bitter pit 8417 cell wall permeability 8417 colour 4980 disorders 1793, 3431 volatiles, production 1793 leaf analysis 3402 placement 40 methods compared, root gro	
NRL 3421 TIBA 5000 2,4,5-TP 5746, 3426 firmness aminozide 976, 3425, 6583 ethephon 976, 1783, 3425, 6583 fenoprop 976, 3425 SADH 482 flavour, 2,4,5-TP, aminozide, NAA, ethephon 5746 loosening ABA 975 cycloheximide 975 cycloheximide 975 nAAA 975 maturity aminozide 976 maturity aminozide 976 ethephon 976 ethephon 976 chlorosis 8382 mainozide 976 quality review 1792 winter hardiness 4976 calcium 3419 calcium absorption 1741, 5730 application, with plant protecta 4990 deficiency cork spot 469 calcium, content, biennial bearing fruit disorders 2602–2603 fruit disorders 2602–2603 fruit pitting 469 disorder incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders 1793, 3431 volatiles, production 1793 leaf analysis 3402 placement 40 methods compared, root gro	
2,4,5-TP 5746, 3426 firmness aminozide 976, 3425, 6583 ethephon 976, 1783, 3425, 6583 fenoprop 976, 3825 SADH 482 flavour, 2,4,5-TP, aminozide, NAA, ethephon 5746 loosening ABA 975 cycloheximide 975 ethephon 975 NAA 975 maturity aminozide 976 ethephon 976 maturity aminozide 976 ethephon 976 ethephon 976 cycloheximide 976 ethephon 976 maturity aminozide 976 ethephon 976 cycloheximide 976 ethephon 977 maturity aminozide 976 ethephon 976 cycloheximide 976 ethephon 977 maturity aminozide 976 ethephon 976 cycloheximide 976 ethephon 976 maturity aminozide 976 ethephon 976 cycloheximide 976 ethephon 976 maturity aminozide 976 ethephon 976 cycloheximide 976 ethephon 976 maturity aminozide 976 ethephon 976 cycloheximide 976 ethephon 976 maturity aminozide 976 ethephon 976 cycloheximide 976 ethephon 976 content 928 fruiting relationships 6573 pruning 4192 composition chlorosis 8382 hydroxybenzoic acids 51 placement 40 practical application, with plant protecta application, with plant p	
firmness aminozide 976, 3425, 6583 ethephon 976, 1783, 3425, 6583 fenoprop 976, 3425 SADH 482 flavour, 2,4,5-TP, aminozide, NAA, ethephon 5746 loosening ABA 975 cycloheximide 975 cycloheximide 975 NAA 975 maturity aminozide 976 ethephon 976 maturity aminozide 976 ethephon 976 quality review 1792 ethephon 976 GA 1797 Apple leaf area, planting, spacing 3390 calcium, content, biennial bearing fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit pitting 469 disorder incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders 1793, 3431 volatiles, production 1793 leaf analysis 3402 placement 40 methods compared, root gro	
aminozide 976, 3425, 6583 ethephon 976, 1783, 3425, 6583 fenoprop 976, 3425 SADH 482 flavour, 2,4,5-TP, aminozide, NAA, ethephon 5746 loosening ABA 975 cycloheximide 975 cycloheximide 975 ethephon 975 NAA 975 maturity aminozide 976 ethephon 976 ethephon 976 chlorosis 8382 quality review 1792 Apple leaf area, planting, spacing 3390 calcium, content, biennial bearing 970-971 cell sap, concentration, seasonal variations 916 cell sap, concentration, pruning 4193 cell sap concentration, pruning 4193 chlorophyll content 928 fruit grelationships 6573 pruning 4192 composition chlorosis 8382 hydroxybenzoic acids 51 placement 40 preview 1792 methods compared, root gro	to
ethephon 976, 1783, 3425, 6583 fenoprop 976, 3425 SADH 482 flavour, 2,4,5-TP, aminozide, NAA, ethephon 5746 ABA 975 cycloheximide 975 ethephon 975 NAA 975 maturity aminozide 976 ethephon 976 quality review 1792 Apple leaf area, planting, spacing 3390 cork spot 469 area, planting, spacing 3390 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit disorders 2602–2603 fruit getlation, seasonal variations bitter pit 8417 cell sap concentration, pruning 4193 content 928 fruiting relationships 6573 pruning 4192 composition chlorosis 8382 quality freview 1792 Apple leaf area, planting, spacing 3390 deficiency cork spot 469 disorder incidence 5005 bitter pit 8417 cell wall permeability 8417 colour 4980 disorders 1793, 3431 volatiles, production 1793 leaf analysis 3402 placement 40 methods compared, root gro	LS
SADH 482 flavour, 2,4,5-TP, aminozide, NAA, ethephon 5746 loosening ABA 975 cycloheximide 975 cycloheximide 975 NAA 975 maturity aminozide 976 ethephon 976 chloropistion ethephon 976 quality review 1792 calcium, content, blennial bearing fruit disorders 2602–2603 fruit pitting 469 disorder incidence 5005 bitter pit 8417 lenticel rot 4980 fruit content 928 fruiting relationships 6573 pruning 4192 disorders incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorder incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorder incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders incidence 5005	
SADH 482 flavour, 2,4,5-TP, aminozide, NAA, ethephon 5746 loosening ABA 975 cycloheximide 975 cycloheximide 975 NAA 975 maturity aminozide 976 ethephon 976 chloropistion ethephon 976 quality review 1792 calcium, content, blennial bearing fruit disorders 2602–2603 fruit pitting 469 disorder incidence 5005 bitter pit 8417 lenticel rot 4980 fruit content 928 fruiting relationships 6573 pruning 4192 disorders incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorder incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorder incidence 5005 bitter pit 8417 lenticel rot 4980 fruit cell wall permeability 8417 colour 4980 disorders incidence 5005	
ethephon 5746 cell sap, concentration, seasonal variations disorder incidence 5005 bitter pit 8417 ABA 975 cell sap concentration, pruning 4193 lenticel rot 4980 fruit cethephon 975 chlorophyll content 928 cell wall permeability 8417 NAA 975 fruiting relationships 6573 colour 4980 disorders 1793, 3431 aminozide 976 chlorosis 8382 leaf analysis 3402 quality review 1792 firon nutrition 6563 methods compared, root gro	
loosening 916 bitter pit 8417 ABA 975 cell sap concentration, pruning 4193 lenticel rot 4980 fruit ethephon 975 chlorophyll fruit ethephon 975 content 928 cell wall permeability 8417 NAA 975 fruiting relationships 6573 colour 4980 disorders 1793, 3431 aminozide 976 composition volatiles, production 1793 ethephon 976 chlorosis 8382 leaf analysis 3402 quality hydroxybenzoic acids 51 placement 40 review 1792 iron nutrition 6563 methods compared, root gro	
ABA 975 cycloheximide 975 chlorophyll ethephon 975 NAA 975 maturity aminozide 976 ethephon 976 chlorosis 8382 quality review 1792 cell sap concentration, pruning 4193 chlorophyll fruit cell wall permeability 8417 colour 4980 disorders 1793, 3431 volatiles, production 1793 chlorosis 8382 leaf analysis 3402 placement 40 iron nutrition 6563 lentice rot 4980 fruit cell wall permeability 8417 colour 4980 disorders 1793, 3431 volatiles, production 1793 ethephon 976 chlorosis 8382 leaf analysis 3402 placement 40 iron nutrition 6563 methods compared, root gro	
cycloheximide 975 chlorophyll fruit ethephon 975 content 928 cell wall permeability 8417 NAA 975 fruiting relationships 6573 colour 4980 maturity pruning 4192 disorders 1793, 3431 aminozide 976 composition volatiles, production 1793 ethephon 976 chlorosis 8382 leaf analysis 3402 quality hydroxybenzoic acids 51 placement 40 review 1792 iron nutrition 6563 methods compared, root gro	
NAĀ 975 fruiting relationships 6573 colour 4980 disorders 1793, 3431 volatiles, production 1793 ethephon 976 chlorosis 8382 leaf analysis 3402 quality ereview 1792 iron nutrition 6563 colour 4980 disorders 1793, 3431 volatiles, production 1793 leaf analysis 3402 placement 40 methods compared, root gro	
maturity pruning 4192 disorders 1793, 3431 aminozide 976 composition volatiles, production 1793 ethephon 976 chlorosis 8382 leaf analysis 3402 quality hydroxybenzoic acids 51 placement 40 review 1792 iron nutrition 6563 methods compared, root gro	
aminozide 976 composition volatiles, production 1793 ethephon 976 chlorosis 8382 leaf analysis 3402 quality hydroxybenzoic acids 51 placement 40 review 1792 iron nutrition 6563 methods compared, root gro	
ethephon 976 chlorosis 8382 leaf analysis 3402 quality hydroxybenzoic acids 51 placement 40 review 1792 iron nutrition 6563 methods compared, root gro	
quality hydroxybenzoic acids 51 placement 40 review 1792 iron nutrition 6563 methods compared, root gro	
review 1792 iron nutrition 6563 methods compared, root gro- SADH 488 nitrogen, variations 38 8377	
SADH 488 nitrogen, variations 38 8377	th
ripening nitrogen nutrition 4972 plant, composition 5725 ethephon 5746, 7406, 8409 potassium 4979 copper	
storage, review 7407 proliferation virus 6566 deficiency	
russeting, SADH 482 seasonal variation 50 leaf analysis 1742	
set soil soil soil analysis 1742	
BA 1782 pH 1743 toxicity 1742	
GA 1782, 7405 salinity 1743 fertilizers gibberellins 1781 copper, content 1742 application, irrigation 3394	
gibberellins 1781 copper, content 1742 application, irrigation 3394 shape -fruit relationships 4991 placement	
aminozide 7408 photosynthesis 5745 depth 946	
BA 1782 histology, shoot type 4991 planting trenches 7350	
GA 1782 nitrogen root systems 1733	
size content fluorine, 1070 171 Fluorine, 1070 171	5015
aminozide, ethephon 6583 biennial bearing 970–971 FYM 4200, 6550	
SADH 5001 cover crops 8375 disorder incidence 6589 storage-life, aminozide 7408 herbicides, simazine 968 general 6550	
storage life, 2,4,5-TP, aminozide, NAA, seasonal variations 5723 application, foliar 8376	
ethephon 5746 nutrient absorption, nitrogen nutrition cold, resistance 4180	
thinning 2571 leaf analysis 7369	
NAA 974, 1785 nutrients symposium 2489	
NAD 974, 1784 content 3404, 4978, 5726 green manures 936, 6550	
growth inhibition, abscisic acid 1777 cation, interactions 3404 disorder incidence 6589 growth reduction humidity 2586 frost resistance 6538	
growth reduction humidity 2586 frost resistance 6538 aminozide 1731, 3417 interstocks 4183 root, growth 1739	
GA 3417 rootstocks 3404 types compared 8374	

Apple nutrition contd.	Apple nutrition contd.	Apple pests contd.
iron	WUXAL 4198	Sappaphis devecta, resistance 44 Stigmella malella 1760, 4217
chlorosis 4947, 6563	zinc 2605 application, foliar 5011	Tetranychus mcdanieli 46
leaf, composition 4977 lime-induced chlorosis 949	deficiency 948, 8385	T. telarius 5738
manganese imbalance 4203	fruit, composition 5011	control 7391
plant, composition 5725	leaf, composition 4977	Thomasiniana oculiperda 2582
magnesium	Apple pests 1696, 1762	tortix moths
deficiency 6558	Adoxophyes orana 478, 1765	control 4988
leaf analysis 3402, 7368	A. reticulana, control 7392	varietal resistance 8380
plant, composition 5725	Aegeria myopaeformis 4215	Tortricidae, review 7282
manganese	biological control 3409	various, control 6586, 7371
fruit, peel thickness 6559 iron imbalance 4203	control 7393 annual report, Canada 2515	Apple propagation budding
leaf, composition 4977	aphids	double-shield 6532
leaf analysis 3402	integrated control 2579	height 4176
minor elements 4199	parasites, population studies 2578	nutrition 931
nitrogen 466, 6555-6556	predator-prey relationships 2578	seedling rootstocks in seed-bed 7346
application	predators, population studies 2578	cuttings
foliar 2571	Aphis pomi 5738 control, growth substances, aminozide	mist 2544 under plastic 2544
methods compared 947 time 39, 4972	4214	polarity 2543
frost resistance 4971	Archips argyrospilus 46	rooting capacity, growth substances,
bud-break 4973	Archips podana, control 4988, 7392	endogenous 926
disorder incidence 4972	Archips spp. 478, 2580	shoot
enzyme activity 7398	A. xylosteana	age 4178
flower, number 8368	control 7392	part 4178
flower bud, initiation 8368 fruit	parasites, <i>Trichogramma</i> spp. 2580 Argyresthia conjugella, population survey	treatment etiolation 7338
amino acids, content 7370	4216	growth substances 2544, 4178
ascorbic acid, content 8415	Australia 6518	IBA 7338
colour 6605, 8368	Bryobia arborea, population studies,	vitamins 2544, 7338
composition 6605, 8378	fungicides 5737	grafting
number 8368	B. rubrioculus, control 7391	bench-grafting 7339
storage life, composition 6557	Cacoecia podana 5738 Capua reticulana 5738	graft storage, temperature 4181 graft treatment, paraffin 7340
composition 4977	Carposina niponensis, forecasting 1757	height, cold resistance 4180
fall 4973	Cemiostoma scitella 5738	methods, winter hardiness 8352
pigments 5724	Conotrachelus nenuphar 4289	rootstocks, planting, spacing 7349
leaf analysis 3402, 8375	Cydia pomonella 48, 958, 1744, 1758,	scions treatment, gamma rays, injury
light absorption 5724	1762, 1767	3415
phosphorus absorption 466	aerial spraying 7372	union, protection 5714
placement, methods compared, root growth 8377	biological control 5739, 8395 control 8396	layering, root development, shoot anatomy 7332
plant	forecasting 1761	meristem, tissue culture 4184
composition 5725	male traps 1766	nursery stock
amino acids 49	fruit, storage 987	defoliation 5716
potassium absorption 466	fungal parasites 1768	root pruning, annual report,
relative humidity 7351	host-pest relationships 3410	Netherlands 2516
soil moisture 7351 sources	population studies 5739	Apple root composition 1727
bitter pit incidence 947	traps 479	development, shoot anatomy, layers 7332
compared 4972, 8378	varietal resistance 8380	growth 944, 2569, 3400
respiration 1771	Dasyneura mali 1763, 2581	cover crop management 934
NPK 4200	Dysaphis devecta, resistance 2539	fertilizer placement 8377
application	D. plantaginea, resistance 2539	rootstock compatibility 2567
foliar 4199 methods compared 4199	ecological studies 956 Eotetranychus uncatus, population studies,	soil, moisture 7367 hardiness
budding 931	fungicides 5737	soil moisture 8353
disorder incidence 6589	Epiphyas postvittana 1767	soil temperature 8353
fruit, quality 6589	Hoplocampa testudinea, varietal resistance	nutrients, content 5725
fruit analysis 4199	8380	-shoot relationships, annual report, UK
leaf analysis 4199	Lithocolletis blancardella 5738	3346
soil management methods compared 8358	L. purifoliella 4217 Lygus pabulinus 478	systems 944–945, 1733, 3400
plant, composition 51	mites 3324	planting, spacing 1740, 2548–2549 soil management 1739
soil analysis 4199	aerial spraying 7372	temperature 2553
soil management methods compared	biological control 29	Apple rootstocks
8358	control 6560	Alnarp 7343
organic fertilizers, placement, methods	nematodes, control, soil steaming 6562	annual report, Italy 6507
compared, root growth 8377 phosphorus 6555–6556	Pandemis heparana, control 7392 P. ribeana, control 7392	breeding and selection, vigour, pollen sources 4958
absorption 2573	P. spp. 478	carbohydrates, content 928
flowering 7368	Panonychus ulmi 30, 455, 473, 1744,	comparative trials 3382, 3398, 4959
fruit, storage life, composition 6557	3408, 5731, 5738, 6571	A2 3385–3386, 7342
leaf	control 4950, 4987, 7384, 7390–7391	Doucin 6534
copper, content 1742 zinc, content 1742	fungicides 5734	F11 8342
leaf analysis 3402, 7368, 8375	growth substances, aminozide 4214 damage 953	G7 8342 H35 3384
placement, methods compared, root	forecasting 1757	M. 35, 929, 3384–3386, 5715, 6534,
growth 8377	fruit set 7371	7342, 8341–8342
plant, composition 5725	incidence 7394	Malling 927
potassium 6555	integrated control 8394	MC107 7342
chlorophyll, content, leaf 5723 deficiency 4979	population studies 4986 fungicides 5737	MM. 35, 929, 3383–3386, 7342, 8341–8342
fruit, storage life, composition 6557	predators 4213	Pakistan 7344
leaf analysis 3402, 8375	Zetzellia mali 1756	Paradise 6534
placement, methods compared, root	varietal resistance 953	Rumania 7341-7342
growth 8377	Pratylenchus penetrans 6570	s Ma 3384
plant, composition 5725 sources, frost resistance 4974	Pseudococcus comstocki, forecasting	seedling 35, 3383, 5715
water relations, seasonal variations	1757 P. maritimus 1767	UK 8341–8342 USSR 8343
36–37	review, Bolivia 5671	compatibility 2567

Subject Index		74
Apple rootstocks contd.	Apple shoot contd.	Apple varieties contd.
compatibility contd.	composition contd.	Belle de Boskoop contd.
frost resistance 2555	cytokinins 47	storage behaviour 8416
disease incidence	hydroxybenzoic acids 51	strains 8339
chlorotic leaf spot 8386–8387 flat limb 7378	nitrogen, seasonal variations 49 sugars, shoot location 969	Benoni, pollination 8404 Blushing Gold 7334
platycarpa scaly bark 7378, 8387	ethylene, production, growth substances,	čačanska Pozna 3377
Spy 227 epinasty and decline	ABA 975	Canada 1724
8386–8387	flower bud distribution, rootstocks 3392	comparative studies, South Africa 8322
stem pitting 7378	growth 8369	comparative trials
disease resistance	temperature 6597	Bulgaria 5722
Podosphaera leucotricha 8345	length, number correlations 8370	Netherlands 4176
Stereum purpureum 8345	nitrogen, content, seasonal variations 5723	Poland 7333 UK 1723
flower bud, initiation 2530 growth substances, absorption, abscisic	number, length correlations 8370	Crispin 6530, 7334
acid 1777	nutrients	Criterian 7334
heat resistance 2553	content 5725	Discovery 6529
high density planting 464, 8344	seasonal variations, varietal	disease incidence
economics 463 interaction	differences 6554 phosphorus, content, seasonal variations	chat fruit 4204 chlorotic leaf spot 8386–8387
growth substances 4220	5723	flat limb 7378
herbicides, dichlobenil 4997	potassium, content, seasonal variations	platycarpa scaly bark 7378, 8387
M., growth substances, endogenous 4995	5723	Spy 227 epinasty and decline
Manchu crab 3387	-root relationships, annual report, UK	8386–8387
M.7 3387 nutrition, NPK 3403	3346 Apple soil	stem pitting 7378 disease resistance
own-rooted plants compared 3400	cultivation	Alternaria mali 7379
propagation	depth 5699	Erwinia amylovora 4208, 7336
cuttings 2544	root, systems 1733	Phytophthora cactorum 7381
leaf removal 3381	erosion, control 938	Podosphaera leucotricha 3377, 7336,
treatment etiolation 7338	fumigation nematode control 5728	7386, 8380 Valsa mali 475
growth substances 7338	root growth, Ditrapex 5728	Venturia inaequalis 1722, 3374, 3377,
vitamins 7338	soil sickness, chloropicrin 8381	5736, 7336, 8380
-scion relationships 3387	humus, content 2572	disorder incidence, bitter pit 950
disease resistance	management	drought resistance 8354
Podosphaera leucotricha 8345 Stereum purpureum 8345	disorder incidence 6589 fruit composition 6601–6602	Elstar 6529 frost resistance 4187, 6528
disorder incidence, longitudinal trunk	fruit quality 6601–6602	USSR 924
bark cracking 6533	fruit storage quality 6589	fruit
drought resistance 5741, 8354	high density planting 464	ascorbic acid, content 4228,
dwarfing 4182 flower bud, position on shoot 3392	methods compared 1735, 2559, 5718, 6550, 8374	7416–7417 composition 4228, 6606
flowering 7312	leaf analysis 8358	flavour 3376
frost, resistance 927	soil analysis 8358	organic acids, content 4228
frost resistance 3392, 8351	soil temperature 6540	ripening time 6587
fruiting precocity 927, 3383, 3385, 7312	NPK contents, soil 938 micro-organisms	size, consumer preference 7418 vitamin P, content 7417
heat resistance 8354	cover crops, grass sward 2559	Gloster 69 6530
incompatibility 7345	fungicides 8391	Golden Delicious
leaf area 8344	replanting 467, 6570, 7374 soil management 937	clonal variation 61 disease incidence, virus 3405
composition 3404	moisture 3395	Granny Smith 6530
light interception 7356	chlorosis 8382	heat resistance 2540, 8354
photosynthesis 2573, 7356	content 2572	high density planting 464, 3390, 8344
pruning and training 8364	drought resistance 4962 intercropping, oat-vetch mixture 2560	Switzerland 904 Idared 6530
root growth 2567, 2569, 3400	root growth 7367	identification, shoots, nursery 3354
systems 3400	root hardiness 8353	Jamba 69 3378, 6529
shoot, growth 7312	soil management 937	James Grieve, pollination 8404
vigour 7312	nitrates, content 2572	James Grieve Lired, pollination 8404
growth substances, endogenous 4995 water relations 5741	nitrogen, content 2572 organic contents, cover crop management	Jonagold 6530 Jonamac 7335
winter hardiness 7352	934	Jonathan 1725
seedling, compatibility 2545	pH, leaf, composition 1743	Jonathan group, disorder incidence,
selection methods, plant composition 928	phosphorus, content 2572	internal browning 1799
virus-tested plants, EMLA scheme 7320 winter hardiness 7352	salinity, leaf, composition 1743 sickness 4202	Jonathan mutants 1725 Karmijn de Sonnaville 6529
Apple seed	fumigation 8381	Lindel 3379
carbohydrates, content, fruit, cold storage	micro-organisms	Magnolia Gold 7334
5712	control 7374 irradiation 7374	Maigold 7334
development, pollination 8408 dormancy	soil pH 7374	Mantet 6529 biennial bearing 4223
varietal differences 5713	steaming, temperature 6561-6562	Melrose 6530
winter hardiness 2542	steaming	Orange de Sonnaville 6529
germination, metabolic processes 2523	seedling growth 6561 soil sickness 6561	Ozark Gold 7334 pest resistance
phloridzin, content 4957 ripening, pollination 6581	structure, soil management 937, 2570	Cydia pomonella 8380
treatment	temperature 2553	Hoplocampa testudinea 8380
gamma rays, stratification 6531	frost injury 2554	tortrix moths 8380
growth substances, abscisic acid 3380	root damage 2553	pollen compatibility 481
stratification 2542 gamma rays 6531	soil management, methods compared	pollination 7403 Prime Gold 7334
growth substances, content 3380	6540	Priscilla 7336
metabolic processes 2523	Apple trunk, girth, green manuring 6550	Prize Wagener, high density planting,
phloridzin, content 4957	Apple varieties Alkmene 6529	USSR 925 pruning and training 4969, 5720, 8364
temperature 5713 Apple shoot	Antonovka Obyknovennaya, mutants	Red Benoni 6529
anatomy	8338	register
growth substances 8400	Aport, climate 8350	International 3353
root development, layers 7332 composition	Aroma 7337 Belle de Boskoop	UK 34, 3353 USA 3356, 4156
amino acids, shoot location 969	pruning and training 8360	rootstock compatibility 2545

Apple varieties contd.	Apricot contd.	Apricot fruit contd.
seed, dormancy 5713	sterols, seed 8424	ripening
Severnyĭ Sinap, pollination 973	stomata	composition 8428
Sinta 1724, 2541	movements	ethylene
Smoothee 6530	relative humidity 8426	annual report, Australia 8313
Spencer 1724	temperature 8426	production 8428
spur types 464	storage	respiration 8428
Starking Delicious, storage behaviour	controlled atmosphere	size, growth substances 7425
7412	fruit	sugars, content, seasonal variations 6522
storage behaviour 2597, 5699, 8413	acidity 2615	thinning, growth substances 6613
Stoyanova Krasavitsa 8340	flavour 2615	Apricot growth substances
sub-tropics 6527	hypobaric 7326	absorption, foliar, abscisic acid, NAA,
Summerland 1724	varietal behaviour 2615	2,4-D 2885
Summerred 1724	fruit composition 7326	cell
survey, Switzerland 904	taxonomy, enzymes 7419	expansion
Sylvia 7337	temperature	GA 7425
tropics 8335	bud, development 1709	2,4,5-T 7425
Tunisia 4155	stomata, movements 8426	endogenous 5758
USA 4208	transpiration 8426	plant, dormancy 5758 report, Australia 3344
USSR 924, 2521 virus-tested clones, EMLA scheme 2528,	water relations 8426	seed 2523
7320	topworking 992	fruit
water relations 2540	transport	drop, MH 994
Winston 6530	containers, refrigerated 7426	size
pruning and training 8361	in water 1718	GA 7425
winter hardiness, USA 3358	tree, volume, estimation 8452	2,4,5-T 7425
Yugoslavia 2594, 3375	vitamin E, seed 8424	thinning, NAA, MH, 2,4-D, 2,4,5-T
Apple wood, nutrients, content 5725	water relations	6613
Apricot	relative humidity 8426	interaction, GA, 2,4,5-T application
annual report	stomata, movements 8426	7425
Australia 5693	temperature 8426	leaf
Canada 2515, 8314	weed control 7316	morphology aminozide 6613
Tunisia 4944	nurseries 7316	
USA 24	wild, USSR 2610	2,4-D 6613 MH 6613
breeding and selection	winter hardiness 4251 leaf, removal 5756	NAA 6613
annual report, USA 3348 cold resistance 3435	varietal differences 5756	2,4,5-T 6613
for processing 3435	Apricot diseases	responses
dormancy, growth substances, endogenous	Botryodiplodia malorum 6610	chlormequat 8329
5758	chlorotic leaf roll 6608	review 8310
enzyme activity	Cytospora cincta 7423	MH 7424
inhibition, fungicides 4952	C. spp. 8425	seed, abortion, MH 7424
leaf, fungicides, bordeaux mixture	host sugars, content 5757	shoot
4952	Eutypa armeniacae 3437	morphology
enzymes, leaf, taxonomy 7419	general 63	aminozide 6613
ethylene, fruit, ripening 8428	Gnomonia erythrostoma, control 6611	2,4-D 6613
fatty acids, seed 8424	line pattern 4948	MH 6613
flowering, date, forecasting, temperature	Phomopsis spp., infection process 7449	NAA 6613
sums 2379	plum pox 4948	2,4,5-T 6613
frost injury 8425	Polystigma rubrum, varietal resistance 7420	translocation, MH 7424 Apricot leaf
bud developent 1709	prune dwarf 4948	cell sap, concentration, seasonal variation
flower bud 4235	Pseudomonas syringae 7423	916
leaf, removal 5756	annual report, German Federal	cuticle
resistance, varieties 7420	Republic 8315	growth substances, absorption 2885
fruiting, date, forecasting, temperature	Rhizopus arrhizus	nitrogen absorption 2612
sums 2379	fruit	fall, frost, injury 5756
fungicides	ascorbic acid, content 2616	-fruit relationships 8427
enzyme activity	phenolic compounds, content 2616	morphology, growth substances 6613
bordeaux mixture 4952	Sclerotinia fructigena 2613	removal, frost, injury 5756
inhibition 4952 injury, bordeaux 6612	fruit sugars, content 5757	wax, nitrogen absorption 2612 Apricot nutrition
residues, determination, folpet, captan,	S. laxa 2614 control 6612	Algifert, fruit, firmness, ripening, storage
captafol 2505	damage, leaf pigmentation 5015	life 4265
respiration, leaf 4951	stem pitting, incidence 5768	boron, deficiency 993
growing	Verticillium dahliae	green manures 5014
Germany 62	host-pathogen relationships 1805	nitrogen 7422
high altitudes, India 7311	resistance 1805	application, foliar 2612
review 490, 4229	V. spp. 8425	NPK 491
USSR 4251	virus, annual report, German Federal	leaf analysis 492
high density planting, Switzerland,	Republic 6506	phosphorus 7422
statistics 8324	Apricot disorders	potassium 7422
hybrids 3435 interstocks 5014	apoplexy 63	Vollhumon 5014
irrigation, requirements 4160	fungus relationships, <i>Phytophthora</i> spp. 454	Apricot pests
phenolic compounds, metabolism, disease	review 8425	general 63 mites, biological control 29
resistance 1805	gummosis 63	Scolytus mediterraneus, host preference
planting	Apricot flower, morphology, growth	94
high density, Switzerland 904	correlations 4164	Serrodes partita, traps, light 4259
survey, Switzerland 904	Apricot fruit	Apricot propagation 26
pollen, germination, morphology 8330	amino acids, content 494	cuttings
processing, canning 2615	boron, content 993	root, treatment, growth substances, IB
pruning and training 6607	composition 7327	8323
annual report, Australia 450	ripening 8428	rooting capacity 905
irrigation 4253	storage, controlled atmosphere,	shoot
mechanical 4230 equipment 4230	hypobaric 7326	age 4178
respiration, fruit, ripening 8428	volatile constituents 5793	part 4178
ringing, leaf-fruit relationships 8427	development, leaf area 8427	Apricat root growth rootstock scien
as a rootstock	drop, growth substances, MH 994 -leaf relationships 8427	Apricot root, growth, rootstock -scion
peach 76	organic acids, content, seasonal variations	relationships 3436 Apricot rootstocks
plum 5798	6522	almond 2638
rootstocks, review 490	proteins, content 4941	apricot 2638

Subject Index		94
Apricot rootstocks contd.	Archips contd.	Artichoke, globe, growth substances contd.
apricot seedlings 991	A. xylosteana	flower bud, development, GA 3636
chlorosis resistance 2638	control, apple pests 7392	responses, GA 3632
comparative trials, Austria 5014	parasites	Artichoke, globe, pests
disease resistance 2638	Trichogramma spp.	Brachycaudus helichrysi, control 5905
nematode resistance 2638	apple pests 2580	Capitophorus horni
peach 2638	cherry pests 2580	biological control
plum 2638	Arctotheca calendula, ground cover plants,	fungi 3635
Prunus armeniaca, compatibility 2611	growth retardants 6157	Hymenoptera 3635
P. sibirica, compatibility 2611	Ardesia spp., growth substances, responses,	Spodoptera littoralis, control 5905
P. spp. 991	GA, annual report, USA 6129	Artichoke, jerusalem
-scion relationships 2611	Ardis brunniventris	antibiotics, enzymes, biosynthesis,
root, growth 3436 seedling, comparative studies 7421	parasites, rose pests, annual report, Netherlands 6961	actinomycin D, tissue culture 3630
Apricot seed	rose pests, annual report, Netherlands	enzyme activity inhibition 1305
abortion, growth substances 7424	4604	tuber slices, tissue culture 130
germination, metabolic processes 2523	Areca diseases, yellow leaf, leaf anatomy	enzymes
treatment, stratification, metabolic	7172	biosynthesis, tissue culture 3630
processes 2523	Areca flower, perianth aestivation 4831	tuber 8598
Apricot varieties 493	Areca leaf	nucleic acids
Alessandrinische Aprikose 5013	anatomy 7172	biosynthesis, report, Australia 3602
Ambrosia 5013	cation exchange capacity 3176	extraction 4398
annual report, USA 3349	Areca pests, Contheyla rotunda, alternative	respiration
Bulida 5013	hosts 9156	tuber
Canada 1724	Areca root, cation exchange capacity 3176	growth substances 8599
German Federal Republic 8423	Areca seed, germination 9125	tissue culture 8599
South Africa 832?	Areca spp. leaf	temperature, dormancy, breaking 2749 tissue culture
comparative trials, Austria 5014	chlorophyll, content 1535	annual report, UK 1938
Early Blenheim 1724	organic acids, content 1535	tuber 6786
Festivalna 7420	Argemone subfusiformis, alkaloids 3964	amino acids, metabolism 7620
Früher Sämling von Radowitsch 489	Argyresthia conjugella, population survey,	growth substances 8599
Hungary 1679	apple pests 4216	treatment 8597
Keczkemeter Rosenaprikose 489	Argyroploce umbrosana, forecasting, light	phytochrome, metabolism 7620
Kesterter Schafsnase 5013	traps 1764	root development 8600
Klosterneuburger Marille 489	Argyrotaenia pulchellana, grapevine pests	temperature 8597
processing, freezing 1814–1815	580	xylem, formation 3631
register, USA 3356, 4156 Saint-Jean 5013	Arisaema spp., diseases, dasheen mosaic 2975	tuber slices 131
Sämling von Hinterholzer 489	Arisarum spp., as weeds, grapevine 1903	weed controlled by, <i>Cynodon dactylon</i> 4397
storage behaviour 2615	Armillaria matsutake, edible fungi 6122	Artichoke, jerusalem, growth substances
Tunisia 4155	A. mellea	dormancy, breaking, GA 2749
Ungarische Beste 489	apricot diseases 63	interaction
winter hardiness 5756	coffee diseases 4057	temperature
Aquatic weeds, control 437	pathogenicity tests, peach diseases 1020	GA, tissue culture 8597
Aquilegia, tissue culture, flower bud, growth	soil fumigation, grapevine diseases 7573	NAA, tissue culture 8597
substances 3856	Arnica spp, essential oil 1424	respiration
Arachnis spp., mycorrhiza 5459	Arnica spp., essential oil, composition	tuber 9500
Araecerus fasciculatus, bean storage, coffee	2353–2354 Aronio molenogarno	2,4-D 8599 GA 8599
pests 8156–8157 Aralia mandshurica, composition 3961	Aronia melanocarpa cold, protection 7487	kinetin 8599
A. spp.	fruit, vitamin P, content 7487	Artichoke, jerusalem, tuber
diterpenes	growing, USSR 7487	dormancy
content 3068	Arsenic	breaking
metabolism 3068	absorption, eggplant 2851	growth substances 2749
Aranda spp.	determination, neutron activation analysis,	temperature 2749
flower	tea 4108	ribosomes 5175
bud initiation	fruit, acidity, reduction, calamondin	formation, ribosomes 5175
decapitation 6210	4021 residues	sprouting, ribosomes 5175 sterols, biosynthesis, tissue culture 1960
inhibition, growth substances 6210 stem incisions 6210	fruit 3329	Artipus floridanus, citrus pests, annual
growth substances, flower bud, initiation,	strawberry 2704	report, USA 8051
inhibition, IAA 6210	tea 3329	Artocarpus spp., cytology 1378
Arboretum, Trompenburg, Rotterdam,	vegetables 3329	Arum spp., as weeds, grapevine 1903
Netherlands 3906	translocation, eggplant 2851	Arvicola terrestris
Arboricides	Artemisia spp.	control
cacodylic acid, coconut 3189	carbon cycle 6319	fruit trees and plants, pests 8306
chloramp, grapevine 581	diseases, Rhizoctonia spp. 336	vegetables, pests 8306
2,4-D 2, coconut 3189	essential oil 329 composition 329	Aschersonia spp., fungal parasite, Dialeurodes citri, citrus 8081
Dianat, grapevine 581 picolinic acid, coconut 3189	flavonoids 6286	Asclepias spp.
sodium arsenate, coconut 3189	terpenes 7966	flowering, temperature 7952
sodium arsenite, disease incidence,	water, flow 2369	growth substances, retardants, aminozide
planting site preparation, rubber 7223	Artichoke, globe	7952
2,4,5-T, disease incidence, planting site	annual report, Cyprus 3604	temperature, flowering 7952
preparation, rubber 7223	breeding and selection, annual report,	Ascochyta chrysanthemi, chrysanthemum
Arbutus andrachne 2302	Italy 6771	diseases, annual report, USA 8834
A. spp.	cynarin 4400	A. clematidina, clematis diseases 3929
diseases, Hendessonula toruloidea, annual	determination 3637	A. coffeae, coffee diseases 3203
report, USA 1315	growing, Italy 4399	A. melonis, cucumber and gherkin diseases 621
growing 7040 Archangelica decurrens	organic acids 4400	A. necans
coumarins 6283	planting, spacing 3632	ferns, diseases, annual report, USA 883
essential oil, content 8988	weed control 3633	Polystichum spp., diseases 1377
Archips argyrospilus, apple pests 46	Artichoke, globe, diseases	A. spp.
A. podana	Botrytis cinerea, irradiation, ionizing 604	heat treatment, papaw diseases 8171
apple pests, annual report, UK 4172	yellow band 3634	post-harvest dips, papaw diseases 8171
control, apple pests 4988, 7392	Artichoke, globe, flower	Ascogaster quadridentata, parasite of,
A. podanus, forecasting, light traps 1764	bud development, growth substances, GA	Grapholitha funebrana, plum 6660
A. rosanus, forecasting, light traps 1764	3636	Ascorbic acid
Archips spp.	maturity, growth substances, GA 3636	applied
apple pests 478, 2580	Artichoke, globe, growth substances flower, maturity, GA 3636	bud development, pea 220 cuttings, apple 2544
cherry pests 2580		outenigo, appro 25TT

Ascorbic acid contd.	Ascorbic acid contd.	Asparagus, ornamental contd.
applied contd.	content contd.	nutrition calcium 3898
enzyme activity, mustard 3013	nitrogen nutrition contd. soilless culture contd.	magnesium 3898
fruit loosening	tomato fruit 2845	potassium 3898
apple 975	spinach 2903	planting, spacing 2268
cherry 8445	vegetables 119	soilless culture 306
interaction, growth substances, petunia	NPK nutrition, peach 6629	Asparagus seed
6152	nutrition	sowing
leaf, senescence, eggplant 671	cabbage 143	direct 2826
onion 233	melon(cantaloup and musk) 165	spacing 2826
seed, Rosa spp. 2990	Penicillium oxalicum, Phyllanthus	sugars, content 8883
biosynthesis, seed treatment, Rosa spp.	emblica 7274	Asparagus soil management, methods compared 2828
2990 content	plant, soil types, absinth 6246 potassium, lemon 3113	sickness 3755
boron nutrition, spinach 126	potassium nutrition, tomato 2869	structure, old roots 3755
citrus 3158	processing	Asparagus spear, proteins, content 4941
coloured light, orange 7149	raspberry 112	Asparagus varieties
diseased fruit, tomato 2891	strawberry 112	annual report, Sarawak 3609
flower bud, frost resistance, cherry	root, beetroot 5172 seed, coffee 8158	comparative trials, Finland 6019 disease resistance, Fusarium spp., annua
2627 fruit 1050	storage	report, Australia 5882
avocado 789	citrus 5573	German Federal Republic 2075
black currant 2674	vegetables 3670	Huchels Leistungsauslese 1243
annual report, UK 7489	tropical spinach 6119	Schwetzinger Meisterschuss 1243
chinese gooseberry 1047	tuber, kohl-rabi 6799	Aspergillus amstelodami, grapevine disease
climate 6334	varietal differences	579
coffee 8158	cabbage, chinese 3663 tomato 2890	A. flavus extracts, virus, inhibition, bean
disease resistance, apple 5736 disorders, orange 2414	vegetables 3339	(Phaseolus) 4473
fertilizers, algae, tomato 6098	degradation, storage, lettuce 7636	fungal parasite, Cydia pomonella, apple
geographical location, apple 6600	determination, vegetables 5901	1768, 8396
growth substances, tomato 6094	metabolism, fruit, citron 8096	symptoms, bean (Phaseolus) diseases
Hippophaë spp. 6238	Ascotis selenaria	7706
iron nutrition, orange 8075	coffee pests 6407 fungicides, fentin hydroxide, coffee pests	A. fumigatus, grapevine diseases 579
latitude, apple 7417 mutagens, tomato 7769	3205	A. niger apple diseases 2601
nitrogen nutrition, apple 8378, 8415	parasites	leaf, micro-organisms, ozone, bean
Phoma destructiva, tomato 6106	Afromelanichneumon sporadicus, coffee	(Phaseolus) 6839
phosphorus nutrition, mandarin and	pests 1584	loquat diseases 4820
tangerine 8072	Cryptus nigropictus, coffee pests 1584	A. ruber
Phytophthora citrophthora, lemon	Asparagus	pea diseases 6860
6347	annual report Belgium 4363	seed, germination, pea diseases 1226
plant nutrition mandarin and tangerine 7158	Cyprus 3604	A. spp., eggplant diseases 1274 A. variecolor, host organic acids,
raspberry 6682	German Federal Republic 7598, 8579	biosynthesis, litchi diseases 8110
plant nutrition capsicum 6893	Netherlands 1132, 5151, 6772	A. violaceo-fuscus, grapevine diseases 75
pollination, apple 973	UK 3612–3613	A. wentii, chrysanthemum diseases, annua
Rhizopus arrhizus, apricot 2616	USA 1130, 3616, 7601	report, USA 8834
ripening	carbon dioxide injury 6782	Asphodelus spp.
banana 8127–8128 capsicum 7765	enzyme activity nutrient deficiency diagnosis 1145	composition 3023 glycosides 3023
tomato 8806	shoot, tissue culture 6020	Asphondylia cyamopsii, varietal resistance
rootstocks, guava 5626	growth studies 5293	Cyamopsis tetragonoloba, pests 3727
seasonal variations, lime (Citrus)	herbicides, injury 2827	A. spp., Cyamopsis tetragonoloba pests
8101	organic acids 6783	5269
size, lime (<i>Citrus</i>) 8101	planting	Aspidiotus destructor, coconut pests, annu
Sorbus aucuparia 2665 spray concentration, apple 2585	seedlings in gaps in direct sown beds 2077	report, Sri Lanka 7185 A. hederae
storage	spacing 2076	biological control, avocado pests 3983
apple 985	seedling, planting 2077	parasites, Aphytis melinus, citrus pests
mandarin and tangerine 7153	storage, temperature 5821	1492
natsudaidai 6360	tissue culture	A. spinosus, biological control, avocado
varietal differences	anther, growth substances, treatment	pests 3983
apple 4228, 7416–7417 black currant 8488	8735 leaf cells, callus formation 8734	Aspidistra pests, Eutetranychus buxi, chlorophyll degradation 741
capsicum 7765	meristem, annual report, Belgium	Aster, china
	1131	breeding and selection, disease resistanc
cherry 3451 pear 7416	shoot, enzyme activity 6020	Fusarium spp., annual report, USA
tomato 1303, 5362, 5369	stem	1441
zinc nutrition, apple 5011	growth substances, treatment 2080	classification 4638
gamma rays, cabbage 5921 grapevine 594	media 2080 weed control 2078, 2827–2828, 5291,	flavonoids, taxonomy 3857
humic acid	5680	herbicides, responses 8852 taxonomy, flavonoids, content 3857
cucumber and gherkin 684	annual report, New Zealand 5152	weed control 8852
tomato 684	review 5292	Aster, china, diseases
irradiation, ionizing, post-harvest,	Asparagus diseases	Alternaria tenuissima 6993
mango 1595	Botrytis cinerea, control 8733	Fusarium oxysporum
latitude, lettuce 5678 leaf	Fusarium oxysporum, 659 F. redolens 659	f callistephi, varietal resistance 2212
fertilizers, algae, tomato 6098	F. spp., incidence 2079	soil, fumigation 2206 varietal resistance 6159
light intensity, peach, pear 3491	Asparagus growth substances, endogenous,	Aster, china diseases, legume little leaf,
spice plants 4728	shoot 4517	control 278
Vaccinium spp. 1869	Asparagus nutrition 2826	Aster, china, nutrition, phosphorus 6133
light, intensity, spinach 607	Asparagus, ornamental	Aster, china, pests
manganese nutrition, spinach 126	annual report, Netherlands 6126	Aphelenchoides blastophthorus 3858
mango 5633 molybdenum nutrition, lettuce 7630	economics, Denmark 3899	A. ritzema-bosi 3858
mother-plant treatment, turnip 1178	growing annual report, Irish Republic 2909	Aster, china, seed, sowing, peat 7606 Aster, china, soil, fumigation, Fusarium
nitrogen nutrition	Denmark 4675	oxysporum 2206
lemon 3113	harvesting 2268	Aster, china, varieties
soilless culture	labour requirements 2268	comparative trials, annual report, USA
capsicum fruit 2845	Denmark 3899	8834

Subject Index		951
Aster, china, varieties contd.	Averrhoa contd.	Avocado fruit contd.
disease resistance	A. spp.	respiration contd.
Fusarium oxysporum, 6159	diseases, Colletotrichum gloeosporioides	gamma rays 1462
f callistephi 2212 Aster flower, cut, preservatives, vase life	859 growing, USA 1531	ripening 789 enzyme activity 358
4611	Avocado	gamma rays 1462
Aster spp.	annual report	storage, temperature 9073
diseases	Australia 9068	water loss, storage 3177
Erysiphe cichoracearum, varietal	St. Lucia 8056	water loss, storage 3177
resistance 6992	USA 2375, 8051	Avocado growth substances
Verticillium vilmorinii, varietal	anthocyanins, annual report, Trinidad and	endogenous
resistance 6992	Tobago 9136	determination 2378
flavonoids	breeding and selection, report, USA 6324	fruit 2378, 3093 seed 9069
content 1431 taxonomy 3857	enzyme activity, fruit, ripening 358	growth inhibition
nutrition, nitrogen, disease resistance	essential oil, composition 3094	NIA-10637 4783
6992	ethylene, production, fruit, storage 1505	NIA-10656 4783
taxonomy, flavonoids, content 3857	fatty acid, metabolism 9072	Avocado nutrition
varieties	frost, protection, temperature data 6335 growing	phosphorus manganese absorption 8055
disease resistance	Cameroon 3982	soil fumigation injury 8055
Erysiphe cichoracearum 6992	Cyprus, annual report 3980	Avocado pests
Verticillium vilmorinii 6992	Venezuela 8119	Abgrallaspis cyanophylli, biological
winter hardiness 6992	harvesting, methods compared 9073	control 3983
Astilbe flower, cut, preservatives, vase life 4611	herbicides, injury, aminotriazole 7121	Aonidiella aurantii, biological control
Astrothrips parvilimbus, varietal resistance,	irradiation gamma rays	3983 Aspidiotus hederae, biological control
banana pests 381	fruit	3983
Asystasia gangetica, ground cover plants,	ethylene, production 1462	A. spinosus, biological control 3983
growth retardants 6157	respiration 1462	Chrysomphalus aonidum, biological
Atalantia monophylla, essential oil,	ripening 1462	control 3983
fungicidal properties 6256	irrigation	Copturomimus perseae, varietal resistance
Athalia proxima, radish pests 619	drip 2376 salinity problems 2376	8052 Fiorinia fioriniae, biological control 3983
Atrichopogon spp., pollinator, cacao 5612	sprinkler 2376	Hemiberlesia lataniae, biological control
Atriplex hortensis, leaf, organic acids,	manganese	3983
content 8594 4. spp., soilless culture 4379	absorption, phosphorus nutrition 8055	Stenoma catenifer, varietal resistance
Atropa belladonna	content	8052 Venezuela 8053
alkaloids	leaf soil fumigation 8055	Venezuela 8053 Xylosandrus morigerus
biosynthesis, growth substances 8002	soil steaming 8055	alternative hosts
content, growth substances 7100	phosphorus	coffee 8154
determination 3060-3061, 3965	absorption	Salix humboldtiana 8154
production, tissue culture 6287	soil fumigation 8055	Avocado plant, development 1463
chlorophyll, biosynthesis, growth substances 8002	soil steaming 8055 respiration	Avocado propagation air-layering, time of 8054
growth substances	fruit 1465	grafting, annual report, Tunisia 3981
alkaloids	gamma rays 1462	Avocado rootstocks
biosynthesis, GA 8002	storage, temperature 9073	-scion relationships
content, GA 7100	seed 1465	incompatibility 5542, 9070
chlorophyll, biosynthesis, GA 8002 responses, GA 7100	ringing 8057 storage	union anatomy 5542
tissue culture	controlled atmosphere	virus incidence 9070
alkaloids, production 6287	chilling injury 1505	virus incidence 9070
cell suspension, fatty acids, metabolism	ethylene removal 1464	Avocado seed
8591	temperature, respiration 9073	germination
pollen 9022	water loss 3177	growth substances 9069
root, media 6287 4. spp.	weed control 1946, 6325, 7121 Avocado diseases	metabolic processes 9069 respiration 1465
alkaloids 6289	Botryodiplodia spp., Venezuela 9071	Avocado soil
content, ultra-violet light 6288	Colletotrichum gloeosporioides 1464,	fumigation
light	2377	injury 8055
ultra-violet	control, review 5540	manganese, content, leaf 8055
alkaloids, content 6288	decline 3092	phosphorus absorption 8055 salinity, irrigation 2376
seed, treatment, alkaloids, content 6288	Fusarium spp., incidence 6327 Phytophthora cinnamomi, Venezuela	steaming, phosphorus absorption 8055
seed, treatment, light, ultra-violet,	9071	Avocado varieties 6409
alkaloids, content 6288	sunblotch, rootstock-scion relationships	Australia 7120
Aulacaspis tegalensis	9070	classification 4785
control, cultural methods, sugar cane	Venezuela 8053 Verticillium albo-atrum 7122	Colombia 1461, 8052 evaluation, Florida 5627
pests 8237 East Africa, survey, sugar cane pests	Avocado flower	flowering, date 4785
8220	biology, abnormal, Corsica 5543	Nabal, carotenoids 3095
sugar cane pests 9256	classification 4785	pest resistance
Aulacophora foveicollis, varietal resistance,	Avocado fruit	Copturomimus perseae 8052
cucurbits, pests 1194	aroma 7171 ascorbic acid, content 789	Stenoma catenifer 8052 Venezuela 8053
Aulacorthum solani, virus, vectors, Rubus viruses, raspberry 4317	composition 3094, 3982	v chezuela 8033
Australia	varietal differences 359	Axonopus spp.
essential oil plants 4737	development, growth substances,	as weeds
tea, growing 9269	endogenous 2378	cacao 8134
Autographa californica, lettuce pests 1158	fatty acids 4784	rubber 4881, 9210 7226
Avena spp.	flavour 1460, 3094 growth substances, endogenous 3093	tea 4106 Azalea
as weeds citrus 6338	irradiation	annual report
vegetables, annual report, German	gamma rays	Austria 265
Federal Republic 7598	post-harvest	Belgium 5386, 8835
Averrhoa carambola	ethylene, production 1462	Netherlands 4604, 6126
flower, biology 9283	respiration 1462 storage life 2435	USA 3835, 8834 breeding and selection, pendant forms
fruit development 9283	oil, content 789	4701
set 9283	proteins, content 789	dwarfing, growth substances 4702
pollination 9283	respiration 1465	flowering, growth substances 4702, 7944

Azalea contd.	Azalea nutrition contd.	Banana contd.
frost, injury, shoot, ice formation 5019	general, disease incidence 2987	clones contd.
growing	major elements, leaf analysis 745	Venezuela 9127
in containers, weed control 4614	NPK 745	drying 22
media, coal ash 8857	disease incidence 6225	economics, Cameroon 824 enzyme activity
peat, nutrition 746 as pot plants 2285, 4700, 5469	Azalea pests Tylenchorhynchus christiei 2288	fruit, ripening 7176
in pots, transport 2278	T. claytoni 2288	plant, carbohydrates, metabolism 9134
herbicides	Azalea propagation	enzymes
injury	cuttings	fruit
dichlobenil 2986, 4614	annual report, Irish Republic 2909	irradiation 6390
EPTC 2986, 4614	media 3838, 8845 under plastic 3917	ripening 6389 plant 9134
humidity, relative, disease incidence 6225 moss control, nurseries 743	source plants	ethylene, fruit, ripening 3178, 4045
pinching	nutrition 6221	fungicides
chemical 7043	photoperiodism 6221	injury, oils 1542
humidity 7043	temperature 6221	residues determination
temperature 7043 pots, types compared 6222	storage 6221 Azalea varieties	folpet, captan, captafol 2505
potting composts	disease resistance	quintozene 3331
Hygromull 7942	Calonectria theae 7943	thiabendazole 7156
pine leaf-mould 7942	Cylindrocladium scoparium 7943	benomyl 6501
porosity 6222	Babiana spp. seed	fruit, thiabendazole 7156 growing
pruning and training chemical 7045	composition 2943	book 7175
equipment 2286	oil 2943	for harvesting throughout the year
growth substances 7044	Bacillus mesentericum, stone fruits, diseases	1538
Off-Shoot-O 2286	6609	India 4832
mechanical, hedge clipper 2286	B. thuringensis 447	as an intercrop coconut, annual report, Jamaica
report, USA 6130 temperature 2289	B. thuringiensis pest control	4851
disease incidence 6225	annual report, German Federal	rubber 8178
flower, development 2289	Republic 6506	Israel 1536
flower bud, initiation 2289	Desmia funeralis, grapevine 1922	Portuguese East Africa 8125
weed control 2986, 4614 Azalea bud, initiation, annual report, UK	Mythimna phaea, sugar cane 8234 Pieris rapae	Venezuela 8119 growth, studies 1539
4605	cabbage 1172, 4427, 7657	harvesting, time of, fruit, ripening 3178
Azalea diseases	annual report, Canada 2734	herbicides
Calonectria theae 2287	Plutella maculipennis, cabbage 6798	injury
varietal resistance 7943	P. xylostella, cabbage 4427	bromacil 9129 terbacil 9129
Cylindrocladium scoparium 2287 annual report, Netherlands 6961	Spodoptera frugiperda, cabbage 4427 Trichoplusia ni	irrigation 4038
host nutrition 6225	cabbage 1172, 4427, 7657	economics, Cameroon 4038
relative humidity 6225	lettuce 5913	equipment 4039
temperature 6225	watermelon 6824	flood
varietal resistance 7943	Trichoplusia ni, cabbage, annual report,	air temperature 4037
Ovulinia azaleae, annual report, Australia 5385	USA 8585 Bacopa monniera, sapogenins 8008	soil temperature 4037 requirements 9130
Pestalotia guepini 7046	Bacteria Bacteria	sprinkler
Pestalotiopsis versicolor	medicinal properties, survey 775	air temperature 4037
host nutrition 6225	vectors	soil temperature 4037
relative humidity 6225	Minettia spp., Erwinia amylovora, pear	light, artificial, fruit, ripening 4836
temperature 6225 Phytophthora cinnamomi	5787 Pegamya spp., Erwinia amylovora, pear	net assimilation rate 1539 phyllotaxy 8123
host nutrition 6225	5787	planting
relative humidity 6225	Bactericides	spacing, plant nutrition 7173
temperature 6225	streptomycin	time 1538
Rhizoctonia solani host nutrition 2987, 6225	absorption, vegetables 6849	potassium, content, leaf 5603
relative humidity 6225	application adjuvants, vegetables 6849	processing 1538 production and trade, Cameroon 5601
temperature 6225	surfactants, vegetables 6849	respiration
Azalea flower	resistance, Erwinia amylovora, pear	ethylene, production 383
bud initiation	5787	fruit 1544
nutrition 745 temperature 2289	translocation, vegetables 6849 Bacterium scabiegenum, beetroot diseases	storage 3179 water relations 3179
bud necrosis 7043	7614	statistical, sampling, leaf 9131
development, temperature 2289	B. tumefaciens, tissue culture, hollyhock	sterols, metabolism 4042
Azalea growth substances	diseases 726	storage
application, adjuvants, oil 6978 dwarfing, aminozide, CBBP, PPA, CTBP,	B. tumefasciens, pecan diseases, annual	controlled atmosphere
ancymidol, phosphon 4702	report, USA 451 Balanites aegyptiaca	fruit, composition 1544, 8128 hypobaric system 1705
flowering	glycosides 3087	diseases, control 9106
aminozide 7944	sapogenins	growth substances
CBBP, PPA, CTBP, ancymidol,	content	2,4-D 2438
phosphon 4702 chlormequat 7944	fruit 9023 seed 9023	GA 2438
DMC 7944	Balduina spp., plant, composition,	smoking treatment 5606 temperature 2439
F529 7944	angustibalin 4759	fruit
leaf	Bamboo, as a windbreak, citrus 1473	colour 2440
abscission, fatty acid methyl esters	Banana	composition 2440
7044 injury, fatty acid methyl esters 7044	annual report	ripening 2440
pinching, fatty acid methyl esters 7043	Australia 1529, 5600, 9121 India 4034	water loss 3177 wax coatings 4044, 5606
pruning, fatty acid methyl esters 7044	Rhodesia 4829	sucker, removal, growth responses 1539
residues, chlormequat 7944	Sri Lanka 3171	taxonomy 9127
retardants	Western Samoa 8122	weed control 9129
aminozide 7944 chlormequat 7944	carbohydrates	review 378, 8121
DMC 7944	metabolism 9134 irradiation, gamma rays, post-harvest	Banana diseases Alternaria musae 4833
F529 7944	6390 .	book 7175
Azalea leaf, colour, nutrition 745	climate, microclimate, irrigation 4037	Botryodiplodia theobromae 1546
Azalea nutrition 746 fertilizers, slow-release 6224	clones	bunchy top, vectors, Pentalonia
Termizers, slow-release 0224	classification 9127	nigronervosa 9132

Subject Hidex		903
Banana diseases contd.	Banana growth substances contd.	Baratha brassicae, brassicas, pests, annual
Cercospora musae 1542	fruit contd.	report, German Federal Republic 8579
forecasting 6386	colour contd.	Bark
Fusarium oxysporum, f. cubense, incidence 5604	2,4,5-T 2439–2440 composition	manures, vegetables 5161 media
F. roseum 1541	2,4-D 2438	bulb forcing 880
F. spp., incidence 6327	GA 2438	container-grown plants 1321
Gloeosporium musarum 829, 1541, 1546,	ripening	manganese toxicity 4691, 6216
4833 Mycosphaerella fijiensis 4834	2,4-D 2438-2439	cuttings, ornamental trees and shrubs 3838
Mycosphaerella musicola 379, 4834	ethephon 4045 GA 2438	growing plants 880
M. spp, varietal resistance 1540	2,4,5-T 2439	herbs 7605
oil spot 1541	shape	mushroom growing 8821
Phyllachora musicola, varietal resistance 1540	2,4-D 2439	vegetables 7605 mulch 880
Phytophthora palmivora 830	2,4,5-T 2439 storage	potting composts, trees and shrubs 2276
Stachylidium theobromae 1541	2,4-D 2438	uses, annual report, UK 6483
storage diseases, control 9106 Uromyces musae, varietal resistance	GA 2438	Basella alba flowering, photoperiodism 602
1540	Banana leaf	growing 7823
Banana disorders, yellow pulp, sulphur	area 1539	B. rubra, growing 7823
deficiency 825 Banana flower	growth, studies 1539 nitrogen, content, pseudostem, girth	B. spp., nutritional value 4387
bud initiation, nitrogen nutrition 4041	4041	Basil, sweet bibliography 7967
development, nitrogen nutrition 4041	Banana nutrition 864, 4040	herbicides, chloroplast, structure,
morphology 9128	calcium, leaf analysis 9131	aminotriazole 1409
Banana fruit aroma 7171	chlorine, leaf analysis 9131 magnesium	leaf, structure 1410 soilless culture 5487
ascorbic acid, content, ripening, storage	leaf analysis 9131	Basil, sweet, diseases
8128	soil analysis 7174	virus
browning, enzyme activity 1545	nitrogen	chloroplast, structure 1409
growth substances 2440	flower bud development 4041	leaf structure 1410 Batrachedra amydraula
2,4-D 2439	initiation 4041	date pests 1514
2,4,5-T 2439–2440	pseudostem, girth 4041	parasites, Hymenobosomina spp., date
storage, temperature 2440	NPK, planting, spacing 7173	pests 1514
composition 2440, 8130 growth substances	potassium 6385 deficiency 6385	Bauhinia purpurea alba hemagglutinin content 2309
2,4-D 2438	leaf analysis 9131	medicinal use 2309
GA 2438	soil analysis 7174	Bay laurel
organic acids 1544	plant analysis 9131	bibliography 7967
ripening 7176, 8127 development 1539	sodium, leaf analysis 9131 sulphur	essential oil 4738 composition 7965
flavour	deficiency 825	determination 7066
evaluation, methods 4837	review 825	seedling, development, seed, sources
storage, temperature 2440	Banana pests 1696	3019
irradiation gamma rays	Aphis gossypii, disease relationships 4833	Bay laurel seed germination, seed, storage 3019
carbohydrates, metabolism 6390	Astrothrips parvilimbus, varietal resistance	storage 3019
post-harvest, storage life 2435, 4043	381	Bean (Phaseolus)
organic acids, content, ripening 8126 pectins, content, ripening, storage 8128	birds, control, review 4830 Calacarus citrifolii 6388	air pollution injury 3698
proteins	Colaspis hyptochlora 380	peroxyacetyl nitrate 2925
content 4941	Cosmopolites sordidus 380	prevention, fungicides 3698
determination 8129	Helicotylenchus spp. heat treatment 5605	amino acids content 2037
quality 8130 evaluation, methods 4837	rhizome dips 5605	herbicides 5995
ripening 3178	Hercinothrips bicinctus 4835	seed 8704
amino acids, content 5607	insects, control, review 1532	metabolism
ascorbic acid, content 8128 composition 7176, 8127	Nacoleia octosema 380 nematodes 446, 828, 1543	enzyme activity 2029 leaf 5996
enzyme activity 7176	Nodostoma subcostatum 380	annual report
enzymes, content 6389	Odoinorus longicollis 380	Australia 7596
ethylene 3178	Pentalonia nigronervosa 380, 5489 vectors, bunchy top 9132	Austria 114 Belgium 1131, 4363
growth substances 2,4-D 2438–2439	Pratylenchus spp.	German Federal Republic 7597–7599,
ethephon 4045	heat treatment 5605	8579
GA 2438	rhizome dips 5605	Irish Republic 1939
2,4,5-T 2439 irradiation	Radopholus similis 827 alternative hosts 7608	Kenya 6844 Malawi 8580
gamma rays 4043	control 9133	Netherlands 8581
ionizing 604	pest-growth correlation equation 826	UK 1934, 3611, 3613, 4365, 8584
light 4836	soil treatment 6387	USA 1130, 1935, 3616, 4367, 7601,
organic acids, content 8126 pectins, content 8128	R. spp. heat treatment 5605	8585 Zambia 8586
propylene treatment 383	rhizome dips 5605	bactericides
storage 1544	review, Bolivia 5671	absorption, translocation, streptomycin
temperature 2440	Scirtothrips signipennis 380 Tetranychus lombardinii 4835, 6388	6849 application, surfactants, adjuvants,
volatile compounds, production 2441 water loss, storage 3177	Thrips florum, varietal resistance 381	streptomycin 6849
shape	Banana plant, composition 1539	bibliography 5971
growth substances	Banana pseudostem, girth, nitrogen, content,	breeding and selection 5973, 8674
2,4-D 2439 2,4,5-T 2439	leaf 4041 Banana root, growth, studies 1539	annual report, Yugoslavia 3619 cold, resistance, tests 2009
storage, dips 1546	Banana soil, temperature, irrigation 4037	disease resistance 3694
texture 8130	Banana varieties 1537, 5602	annual report, Australia 5882
vitamins 3339	annual report, Sarawak 4036	Uromyces phaseoli 2023
water loss, storage 3177 water relations, respiration 3179	disease, resistance, genetics 1540 flower, morphology 9128	Xanthomonas phaseoli 5248 F ₁ hybrids, annual report, USA 3617
Banana growth substances	pest resistance 381	seed, germination at low temperatures
fruit	USA 8124	2784
colour	Banisteriopsis caapi, alkaloids 7097	caesium, absorption, reduction,

Bean (Phaseolus) contd.	Bean (Phaseolus) contd.	Bean (Phaseolus) contd.
calcium	growing contd.	light contd.
content	Malawi 8673	far-red contd.
aluminium nutrition 5974	outdoor and greenhouse compared	chlorophyll, biosynthesis 4505, 771
plant 8702	8675	leaf, development 3716 intensity
translocation 2028	protected cultivation 5159 Tunisia 4369	apical dominance 8698
temperature 2028	tunnels 2016	leaf
carbohydrates, metabolism, drought injury 7722	plastic, annual report, UK 4366	area 3715
carbon monoxide, metabolism 1219	growth, apical dominance, growth	movements 5989
cell	substances 2800	photosynthesis 2793
solute permeability, ozone 8682	growth studies 2787	transpiration 2793
water permeability 8695	apical dominance 8698	interaction
ozone 8682	light 7716	growth substances 195
chlorophyll	temperature 7716	temperature
biosynthesis 7708 inhibition, actinomycin D 5983	water relations 3713 growth studies after dark treatment 5256	growth 7716
light 4505	harvesting, mechanical, chemical	photosynthesis 7716
far red 7715	defoliation, annual report, Irish	leaf, senescence 4482
red 7715	Republic 5150	pigments 8699
red and far-red 4505	heat treatment, fungus control, bean	proteins 8699
phytochrome 7715	8706	red chlorophyll, biosynthesis 4505, 77
content, ozone injury 2788	herbicides	leaf, development 3716
metabolism 7714	absorption	white, calcium, metabolism 7713
chloroplast development 5986, 7710	aminotriazole 6848 tolerance, terbutryne 4468	lipids, metabolism, leaf, development
lipids, metabolism 2072	disease incidence, dinoseb 8687	2072
climate, microclimate 640	injury	magnesium
colchicine treatment, growth substances,	A-820 6777	content
content 6851	alachlor 2018	aluminium nutrition 5974
cold, resistance, testing 2009	dinoterb 8683	plant 8702
cotyledons, histology, herbicides 2012	diuron 3700	translocation 2028
cyanide, content 5263	EPTC 3660	temperature 2028 mitochondria, strontium, absorption 18
darkness growth studies 5256	Bean (<i>phaseolus</i>), herbicides, injury, ethylene production, endothal 4483	mutants 636
leaf, movements 5989	Bean (<i>Phaseolus</i>)	flat pod rogue 5233
drought	herbicides	growth substances, endogenous 4465
injury, flower biology 7722	injury	stringy pod rogue 5232
resistance, ribosome activity 2802	linuron 3700	nitrite, toxicity 5893
dwarfing	nitrofen 8683	nitrogen, content, seed 5997
growth substances	terbutryne 3700, 5888	nucleic acids
aminozide 2031 butylammonium bromides 2031	testing 193 metabolism, aminotriazole 6848	biosynthesis, actinomycin D 7719 metabolism, etiolated leaves 5983
chlormequat 2031	plant	organic acids 6783
enzyme activity 1954	responses 8684	ozone
diseased plants 3708	terbutryne 4468	cell permeability 8682
inhibition, prenyl pyrophosphates 2030	proteins	injury 6840
inhibitors, determination 7723	biosynthesis, picloram 6855	leaf
leaf 6850 determination 5897	content s-triazine compounds 5995	composition, adenylates 6841 ethylene production 4483
proteins, biosynthesis 4479	triazines 2012	metabolism 2015
root extracts 2033	residues	photosynthesis 8681
seed 192, 5992	plant, Dacthal 646	respiration 1209, 8681
seedling 196	soil, Dacthal 646	prevention
seedlings, amino acids, metabolism	responses 641	fungicides 1210–1211
2029	atrazine 5995	benomyl 6840 sulphur nutrition 2788
sulphur, deficiency 3717 enzymes 2797	tolerance, terbutryne 5888 translocation, growth substances,	potassium, metabolism, tissue culture
determination 8700	naptalam 5988	7711
extraction 647	insecticides	phaseollin, biosynthesis, actinomycin D
ethylene	injury	7719
leaf, abscission 5259	bromophos 8692	phosphorus
production	carbamates 2742	content, aluminium nutrition 5974
growth substances 4481	trichloronate 8692	metabolism 4470
inhibition, growth substances, cycloheximide 4483	metabolism, aldrin 2033 residues	translocation 2028, 2796 temperature 2028
stress-induced 4483, 7720	malathion 183	photoperiodism, nitrate accumulation
treatment, shoot abscission 6854	plant	1144
flowering, date 8675	DDE 646	photosynthesis 184
frost, protection, sprinkler irrigation,	DDT 646	annual report, Australia 6769
tunnels 2016	dieldrin 646	carbon dioxide uptake 5984
fungicides air pollution injury, prevention,	endrin 646 lead arsenate 1951	after dark treatment 5985, 8694
benomyl 3698	toxaphene 646	growth substances 2799 inhibition, anti-transpirants 3333
application	soil	light intensity 2025, 2793
spreaders, zineb 1215	DDE 646	oxygen concentration 2025, 7709
surfactants, zineb 1215	DDT 646	ozone 8681
injury	dieldrin 646	plant nutrition 8693
actinomycin-C 4475	endrin 646	respiration
zineb 1215 residues	toxaphene 646	leaf 7709
determination	intercropping, maize 8673 iron, translocation, nutrient solution,	plant 188 temperature 5984–5985
benomyl 7609	composition 4507	toxins, fusicoccin 3712
thiophanate 7610	irrigation 7700	transpiration 2793
thiophanates 4477	annual report, Australia 1133	phytoalexins
glycosides, content 8705	plant nutrition 5975	biosynthesis 7719, 8688
growing	proteins, content, 5258	production 7705
Bulgaria 3620–3621	requirements, determination 171	phytochrome, -chlorophyll relationships
book 8670 under glass, pest control 3627	sprinkler 171 surface 171	7715
for harvesting throughout the year,	light	pigments biosynthesis, light 2026
annual report, UK 5884	far-red	content 8705
as an intercrop, pineapple 9198	calcium, metabolism 7713	light 8699

Subject Index		95:
Bean (Phaseolus) contd.	Bean (Phaseolus) contd.	Bean (Phaseolus) diseases contd.
planting	temperature contd.	Phyllosticta phaseolina, symptoms 7706
v. direct sown, tunnels 2016	sums 2787	Pseudomonas fluorescens 5247
spacing 2014, 2786	tissue culture	P. mors-prunorum, phytoalexins,
annual report, Netherlands 1135	cell suspension	production 7705
pollination, bees, seed production 5899	fatty acids, metabolism 8591	Pseudomonas phaseolicola 178, 2022,
potassium	sugars, metabolism 2805	5246
content	embryo, growth substances, metabolism	enzyme activity, inhibition 177
aluminium nutrition 5974 plant 8702	2803-2804 leaf	phytoalexins, production 7705
metabolism, tissue culture 7711	potassium	races 8686 seed germination 8677
translocation 2028	absorption 8697	toxins 176
temperature 2028	metabolism 7711	varietal resistance 168
proteins 3723, 4484, 7724	rubidium, absorption 8697	P. solanacearum
biosynthesis	sodium, absorption 8697	seed germination 8677
enzyme activity 196, 4479	leaf abscission layer, ethylene treatment	varietal resistance 1205
herbicides 6855 content	5259	Pythium aphanidermatum 4475
growth substances, chlormequat	seed, enzyme activity 5992 transpiration	P. butleri, post-harvest dips 8706 Ramularia phaseoli 4474
5258	antitranspirants 3333	Rhizoctonia solani
herbicides 2012, 5995	evapo-, seasonal variations 5354	herbicides 8687
irrigation 5258	light intensity 2793	phytoalexins 8688
nitrogen nutrition 3701, 5242	mechanism 8695	seed-borne 5982
phosphorus nutrition 3701	photosynthesis 2793 toxins, fusicoccin 3712, 4478	rugose mosaic
potassium nutrition 3701 seed treatment 5242	types	vectors Cerotoma ruficornis 6845
varietal differences 1205	breeding and selection 8674	Diabrotica spp. 6845
determination 4486	classification 8674	Sclerotinia sclerotiorum 644, 1214
light 8699	vitamin B	control 7707
metabolism 3722	applied, growth substances, injury	forecasting 7707
seed germination 5239	prevention 7717	incidence 7707
nutrients, content, herbicides 4485	content, growth substances 7717 vitamins, content 3339	post-harvest dips 8706 Sclerotium rolfsii, incidence, Brazil 5235
pterocarpanoids 6233 rainfall	water relations 2794	southern bean mosaic virus, control 175
disease incidence 2011	apical dominance 8698	soybean mosaic, control, cross protection,
pest incidence 2011	growth studies 3713	by bean pod mottle 4472
plant nutrition 5975	root 1223	subterranean clover stunt, vectors 6846
report, USA 1940	salinity 2790	Thielaviopsis basicola 5255
research, Belgium 8672	seed 192	tobacco mosaic, inhibition, fungus
respiration leaf	wax, removal, leaf, herbicides 8684 weed control 167, 170, 641, 1946–1948,	extracts, Aspergillus flavus 4473 tobacco necrosis 8651
oxygen concentration 7709	2017, 3615, 3699–3700, 5680,	tobacco ringspot
ozone 1209, 8681	6777–6778, 6780, 6842, 7702, 8588,	host reactions 5980
photosynthesis 7709	8683-8684	report, Australia 3602
toxins, fusicoccin 3712	annual report	tomato mosaic virus, inhibition, plant
plant, photosynthesis 188	Cyprus 3604	extracts, Datura spp. 642
wind 5254	New Zealand 5152	Uromyces appendiculatus 4474
ribosome activity, drought, resistance 2802	UK 5885, 8583 review 5270	annual report, East African community 5245
ribosomes	Solanum nigrum 7702	fungicides, application, adjuvants 1215
diseased plants 8701	weeds 6491	host histology 8689
senescence 8701	wind, respiration 5254	U. phaseoli 3707
salinity, damage, leaf senescence 2879,	zinc, toxicity, symptoms 7704	control 8690
5244	Bean (<i>Phaseolus</i>) diseases	dark treatment 5251 heat treatment 5251
seedling chlorophyll, biosynthesis 186	alfalfa mosaic, varietal resistance 3703 Alternaria spp., control 8690	host-pathogen relationships 4476
emergence, soil compaction 5238	Aspergillus flavus, symptoms 7706	resistance 2023, 2792
growth, haemagglutinin, treatment	bean pod mottle virus 2020	varietal resistance 3708
2798	Cercospora spp., control 8690	U. phaseoli-typica 643
treatment, dark, growth studies 5256	chlorophyll relationship 174	U. phaseoli typica, incidence, Brazil
sodium translocation 2028	Choanephora cucurbitarum 5249 Colletotrichum lindemuthianum	5235 virus, annual report, Netherlands 6772
temperature 2028	host-pathogen relationships 3706	white clover mosaic, ribosomes 8701
soilless culture, nutrient solution,	host proteins, metabolism 3705	Xanthomonas campestris 5247
concentration 5979	incidence, Brazil 5235	Bean (Phaseolus) diseases, Xanthomonas
statistical, design of trials, plot size 7695	resistance 5981	phaseoli 180
sterols	seed-borne 5982	Bean (<i>Phaseolus</i>) diseases
content 2034	varietal resistance 3695 C. spp., control 8690	Xanthomonas phaseoli 1213, 4474, 5247 aerial survey 179
metabolism, plant cell membranes 2034	common mosaic 6835	resistance 5248
stomata, number, light, intensity 3715	varietal resistance 6835	seed germination 8677
storage	common mosaic virus 2021	varietal resistance 5234, 7696
cold, ascorbic acid, content 3670	Corynebacterium flaccumfaciens 1213	X. vesicatoria 5247
methods compared 2036	seed germination 8677	yellow mosaic 6835
strontium, absorption, reduction,	varietal resistance 1205	vectors 6846
clinoptilolite, contaminated soils 2789	Erwinia carotovora, seed germination 8677	Bean (<i>Phaseolus</i>) flower, biology, drought injury 7722
sugars content 2038	E. phytophthora, seed germination 8677	Bean (<i>Phaseolus</i>) fruit, composition 2010
boron nutrition 3710	Erysiphe polygoni, seed treatment 6847	Bean (Phaseolus) growth substances
seed 5997	Fusarium oxysporum, seed-borne 5982	absorption
metabolism, tissue culture 2805	F. solani 5241	foliar, 2,4-D 2032
translocation 2795	f phaseoli, soil, compaction 181	IAA 8696
phloem blockage 5987	symptoms 7706	root, IAA 3714 SADH 1218
temperature 5987 symposium 8671	Iran 8707 Isariopsis spp., control 8690	apical dominance
taxonomy, chemotaxonomy 6233	* Macrophomina phaseoli 5250	GA 195
temperature 2787	seed-borne 5982	IAA 195
interaction	mosaic, detection 3704	kinetin 195
light	mosaic-type virus 2791	morphactin 2800
growth 7716	mosaic virus, varietal resistance 1212	TIBA 2800
photosynthesis 7716	Olpidium brassicae, vectors, tobacco necrosis 8651	chlorophyll copent leaf cytoquinine
nutrient translocation 2028 photosynthesis 5984	pea mild mosaic 4502	chlorophyll, conent, leaf, cytoquinine active compounds 2799
Paratos Junior	r mark modele , bod	The state of the s

Bean (Phaseolus) growth substances contd.	Bean (Phaseolus) leaf	Bean (Phaseolus) nutrition contd.
cuttings	abscission calcium nutrition, tissue culture 6843	potassium contd. deficiency, symptoms, correction,
treatment IAA 3721, 6853	enzyme activity 5991	growth substances 2799
malformin 3721	ethylene 2035	proteins, content 3701
dwarfing	growth substances 4481	rubidium, absorption, leaf, tissue culture
aminozide 2031	abscisic acid 2035	8697
butylammonium bromides 2031	endogenous 3718	sodium, absorption, leaf, tissue culture
chlormequat 2031	IAA 2035	8697
endogenous 2710	abscission layer, enzyme activity 2035 achlorophyllous	sulphur 4471 deficiency, enzyme activity 3717
determination, xanthoxin 3719 leaf	enzyme activity 4480	ozone injury, prevention 2788
colchicine treatment 6851	microbodies 4480	zinc, plant analysis 2019
senescence 3718	amino acids, metabolism, annual report,	Bean (Phaseolus) pests
mutants 4465	UK 5153	Acanthoscelides obtectus 5262
enzyme activity, seed, abscisic acid 5992	anatomy, toxins, fusicoccin 4487	irradiation, gamma rays, sterilization
ethylene, production, inhibition,	area, light, intensity 3715 chlorophyll	2024
cycloheximide 4483	biosynthesis 185	resistance 182
growth inhibition	content 1217	aphids 4383
abscisic acid derivatives, tissue culture	growth substances 2799	Aphis craccivora, vectors, virus 6846 A. gossypii, vectors, virus 6846
2804 2,4-D 7717	osmotic pressure 1217	Callosobruchus chinensis, resistance 182
herbicides	disease relationship 174 chloroplast, metabolism 184	Cerotoma ruficornis, vectors, rugose
translocation	composition 2010	mosaic 6845
2,4-D 5988	adenylates, ozone, injury 6841	Diabrotica adelpha, vectors, rugose mosa
PCPA 5988	development	6845
IAA translocation, DPX1840 2824	light, coloured 3716	D. balteata, vectors, rugose mosaic 684:
interaction	lipids, metabolism 2072	Ditylenchus dipsaci 3878 Epilachna varivestis 3709
applied, cytoquinine active compounds,	growth, asymmetrical 8680 micro-organisms, ozone 6839	Hylemya cilicrura 5252
endogenous 2799	movements	seed treatment 8692
auxin, non-auxinic chemicals 8678 endothal, ethephon application 4481	darkness 5989	soil treatment 8692
IAA, malformin application 3721	growth substances 6852	integrated control 3627
light, serine 4482	light 5989	Macrosiphum euphorbiae, vectors, virus
malformin, IAA application 3721	nutrients content 2787	6846 Melanagromyza phaseoli 167
nitrogen nutrition, GA 7718	growth rate 2787	Myzus persicae, vectors, virus 6846
interactions 5994	nyctinasty 6235	Pratylenchus spp. 645
internode length, brassins 3720	osmotic pressure, chlorophyll content	Tetranychus telarius 1216, 4383
leaf	1217	control, fungicides, benomyl 5253
abscission	senescence 4482	Bean (<i>Phaseolus</i>) plant
abscisic acid 2035 endothal 4481	growth substances 4482 light 4482	composition 4145 growth substances
ethephon 4481	nucleic acids 2879, 5244	aminozide 2031
IAA 2035	soil salinity 2879, 5244	butylammonium bromides 2031
movements, IAA 6852	shape, asymmetrical 8680	chlormequat 2031
senescence	stomatal mechanism 194	Bean (Phaseolus) pod
BA 4482 cycloheximide 4482	Bean (<i>Phaseolus</i>) nutrition aluminium	ascorbic acid, content, storage 3670 breakage, varietal differences 5264
serine 4482	toxicity, plant tolerance 5974	composition, storage 3670
metabolism	varietal responses 5974	maturity, forecasting 1220
abscisic acid, tissue culture 2803	boron 4471	number
abscisic acid derivatives, tissue culture	deficiency, symptoms 8685	growth substances
2804 TAA 6960 9606	sugars, content, leaf 3710 calcium	5-chloro,2-thenyl, tri-n-butyl-
IAA 6869, 8696 oestrogens	absorption, aluminium nutrition 5974	phosphoniumchloride 1221 CTBP 5993
content	deficiency	proteins, content 4941
abscisic acid 5260	symptoms	Bean (Phaseolus) propagation
kinetin 5260	light	cuttings
photosynthesis, cytoquinine active	far red 7713	source plants
compounds 2799 plant composition	white 7713 leaf, abscission, tissue culture 6843	from irradiated seeds plant respiration 3711
aminozide 2031	fertilizers	root formation 3711
butylammonium bromides 2031	irrigation 5975	treatment, growth substances
chlormequat 2031	rainfall 5975	3711
pod	iron	Bean (Phaseolus) root
number 5-chloro,2-thenyl, tri-n-butyl-	absorption nutrient solution	composition, aluminium nutrition 5974 exudate, composition 189
phosphoniumchloride 1221	bicarbonate content 4507	nodule formation, ozone 6840
CTBP 5993	composition, pH 4507	systems, soil, compaction 5241
proteins, content, chlormequat 5258	lead 173	Bean (Phaseolus) seed
responses	major elements 2786	calcium, distribution 7713
brassins 2801 CCC 5257	leaf analysis 7703	composition 5997, 8703
GA 5994	plant composition 7703 soil analysis 7703	protein 197 cytology 198
hydroquinone 3750	molybdenum 4471	drying, silica gel 1137
IAA ⁵ 994	nitrogen 167	embryo development 8703
kinetin 5994	apical dominance 8698	exudate, composition 189
resorcin 3750 vanillin 3750	interaction, growth substances 7718	germination
root, formation 190	nitrate accumulation, 1144 proteins, content 3701, 5242	bacterial diseases 8677 inhibition
seed, weight, brassins 2801	sources, compared 172	dimethyl-formamide 6838
shoot-tip, injury, 2,4-D 7717	varietal responses 3702	formamide 6838
sodium, absorption, kinetin 2027	NPK, photosynthesis 8693	low temperatures, breeding and
stomatal mechanism, ABA 194	phosphorus	selection 2784
translocation 2,4-D 7712	absorption, nutrient solution,	proteins, metabolism 5239, 7721
IAA 2795, 3714, 7712, 8696	bicarbonate 7787 proteins, content 3701	tests 639 methionine, content 5978
SADH 1218	translocation, nutrient solution,	production 59/8
TIBA 3714	bicarbonate 7787	harvesting, time of 5262
2,4,5-T 7712	potassium	pollination, bees 5899
vitamin B, content, 2,4-D 7717	absorption, leaf, tissue culture 8697	rogue elimination, flat pod 5233

Subject Index		957
Bean (Phaseolus) seed contd.	Bean (Vicia) contd.	Bean (Vicia) diseases contd.
quality, standards, annual report, Italy 6771	enzyme activity <i>contd.</i> inhibition 648	mottle virus, nucleic acid, biosynthesis 200
soaking, injury 192	rõot extracts 2033	pea enation mosaic 5276
sorting, air flow 4373 sowing	leaf 2044	pea mild mosaic 4502
dates 2013, 2787, 3697, 8675–8676	coloured light 8712 root 5266, 5999	pea symptomless virus 6006 Pullularia spp., vectors, aphids 8708
Israel 3696	root extracts 2033	Rhizoctonia solani 4489
depth 1208 orientation 5237	enzymes biosynthesis, coloured light 8712	subterranean clover stunt, vectors 6846 Uromyces fabae 2042
row direction 640	determination, root 5999	wilt virus, annual report, UK 3612, 4365
spacing 640, 1207, 3697, 4467, 7700–7701	root 5999, 7692 fungicides, chloroplast, activity,	Xanthomonas phaseoli, resistance 5248 yellow mosaic, vectors 6846
systems 8679 tunnels 2016	dithiocarbamates 8713	Bean (Vicia) growth substances
storage 1206	glycosides, content 8705 growth studies 5268	potassium, absorption, abscisic acid 4494 translocation, IAA 7726
relative humidity 639 temperature 639	leaf removal 6000	Bean (Vicia) leaf
treatment	herbicides absorption, terbutryne 4468	removal
electromagnetic fields, injury 5226 fungicides 3622	injury	growth studies 6000 plant composition 6000
benomyl 6847	2,4-D 4488	transpiration 1224
gamma rays plant respiration 3711	terbutryne 5888 plant, responses, terbutryne 4468	Bean (Vicia) nutrition nitrogen 199
root formation on cuttings 3711	tolerance, terbutryne 4468, 5888	disease development, Rhizoctonia
haemagglutinin 2798 insecticides 5252, 8692	translocation, 2,4-D 4488 insecticides	solani, Fusarium solani 4489 phosphorus 199
irradiation, X-rays 191	application, dusts 4490	disease development, Rhizoctonia
molybdenum 5242 weight, growth substances 2801	carbon dioxide fixation darkness	solani, Fusarium solani 4489 potassium
Bean (<i>Phaseolus</i>) shoot abscission, ethylene 6854	fenitrothion 8710	absorption
abscission layer, anatomy 6854	phosalone 8710 injury, application methods, disulfoton	growth substances 4494 leaf, light, tissue culture 4494
xylem formation 5972 Bean (<i>Phaseolus</i>) soil	4490 metabolism, aldrin 2033	chloroplast activity 128 disease development, <i>Rhizoctonia</i>
compaction	root, nodule formation 201	solani, Fusarium solani 4489
disease incidence 181, 5241 seedling emergence 5238	light blue, enzyme activity 8712	sulphur 199 Bean (Vicia) pests
fumigation, Olpidium brassicae, methyl	red, enzyme activity 8712	aphids
bromide 8651 salinity	medicinal properties 4495 mutagen testing 1346	vectors Cladosporium spp. 8708
chlorine, absorption, growth substances,	nucleic acids, biosynthesis 3725-3726	Pullularia spp. 8708
kinetin 2027 sodium, absorption, growth substances,	organic acids, biosynthesis, stomata, mechanism 3724	Aphis craccivora, vectors, virus 6846 A. fabae 4490
kinetin 2027	Bean (Vicia), Orobanche spp., control 4488	fertility rate reduction, antibiotics
sterilization, steam, disease control 8651 Bean (<i>Phaseolus</i>) varieties 167, 2011, 4371	Bean (<i>Vicia</i>) photoperiodism 2043	8709 A. gossypii, vectors, virus 6846
aluminium tolerance 5974	root	Ditylenchus dipsaci 3878
annual report, UK 5149 Bulgaria 7698	exudate 7725 metabolism 7725	Kakothrips robustus, vectors, Botrytis fabae 8708
comparative trials 4466, 7697 annual report, St. Lucia 8577	photosynthesis 202 physiology 4491–4492	Macrosiphum euphorbiae, vectors, virus 6846
Brazil 5235	pigments, content 8705	Myzus persicae, vectors, virus 6846
French West Indies 6836 USSR 637	pollination, bees, seed production 5899 Bean (<i>Vicia</i>), proteins 4484	Taeniothrips vulgatissimus, vectors, Botrytis fabae 8708
cyanide, content 5263	Bean (Vicia)	Thrips flavus, vectors, Botrytis fabae
disease resistance 168, 1205, 6837, 7698 alfalfa mosaic 3703	proteins 4493, 4941 biosynthesis, coloured light 8712	8708 Bean (Vicia) plant, composition, leaf
Colletotrichum lindemuthianum 3695	quality, storage temperature 6872	removal 6000
common mosaic 6835 mosaic virus 1212	respiration, root, magnetic field 6857 stomata	Bean (Vicia) root development, cytology 5267
Uromyces phaseoli 3708 Xanthomonas phaseoli 5234, 7696	guard cells cytology 6856, 8736	exudate composition 7725
evaluation 5236	organic acids, biosynthesis 3724	photoperiodism 7725
flowering, date 8675 herbicides tolerance 6837	water relations 6856, 8711 movements	metabolism exudate 7725
mechanical harvesting 169, 7697, 7699	light 5265	photoperiodism 7725
pest resistance 7698 processing 2785	potassium 5265 rubidium 7727	nodule, nitrogen-fixing activity, soil, moisture content 2040
Pusa Parvati 5977	sulphur dioxide 2039	nodule formation, insecticides 201
seed, protein, content 1205 soil types, acidic 2010	potassium, accumulation 5998 storage, temperature 5821, 6872	Bean (Vicia) seed composition, amino acids 199
Tacarigua 7699	sulphur dioxide, stomatal movements 2039	development, proteins, biosynthesis 2046 germination, glycosides, metabolism
USSR 638 Bean (Vicia)	tissue culture, chloroplasts 128	2806
air pollution, stomatal movements, sulphur dioxide 2039	translocation, studies, growth substances 7726	glycosides, biosynthesis 2806 production, pollination, bees 5899
annual report	transpiration, annual report, UK 1934	sorting, air flow 4373
UK 3611, 5153 USA 7601	water potential, leaf, measurement 1222 water relations 1224	Beauveria bassiana, fungal parasite, Cydia pomonella, apple 1768, 8396
breeding and selection, disease resistance,	root 1223	Bedding plants
Xanthomonas phaseoli 5248 carbohydrates	stomata, guard cells 6856 weed control 6780	air pollution, sulphur dioxide, ethylene, injury 6132
metabolism	annual report, New Zealand 5152	annual report, USA 3835
darkness 8710 light 8710	Bean (Vicia) diseases Botrytis fabae 2041	growing Finland 8843
carbon dioxide, fixation, darkness,	vectors Kakothrips robustus 8708	under plastic, annual report, UK 3833 growth substances
insecticides 8710 cell wall, structure 203	Taeniothrips vulgatissimus 8708	retardants
chloroplast activity, fungicides 8713	Thrips flavus 8708 Cladosporium spp., vectors, aphids 8708	aminozide 6136 ancymidol 6136
proteins, biosynthesis 2045	Fusarium solani 4489	chlormequat 6136
enzyme activity 1954	Iran 8707	ethephon 6136

carbohydrates, content, mango 3239

Rodding plants contd	Begonia	Begonia tuber
Bedding plants contd. irrigation, capillary, fertilizer application	aerial tuber	dormancy 4649
6495	dormancy	sprouting, growth substances 730
	breaking 8886	Beijerinckia indica, soil, micro-organisms,
nutrition	induction 8886	sugar cane 4103
annual report, German Federal		Belgium
Republic 7844	air pollution, sulphur dioxide, ethylene,	
NPK, requirements 6133	injury 6132	strawberry
ozone, injury, annual report, Canada	annual report	growing
8836	Austria 265	in greenhouses 7531
seed, germination, temperature 8843	Belgium 8835	under plastic 7531
sulphur dioxide, injury, annual report,	Canada 2910	Belonolaimus longicaudatus
Canada 8836	Netherlands 6126	bean (<i>Phaseolus</i>) pests, annual report,
temperature, seedling production 8843	compost, amendments, compared 5419	USA 8585
Bees	dwarfing	onion pests, annual report, USA 4368
food plants, almond 8334	growth substances 5390	Bemisia tabaci
nectar removal, essential oil, content,	chlormequat 5420	control
lavender 5899	flowering	cucumber and gherkin pests 5222
nesting sites, blueberry 6689	date, pinching 4650	Cucumis melo var. flexuosus, pests
pollination	photoperiodism 8885	5222 tomata posts 8786
blueberry 536, 1066	growing	tomato pests 8786
cucumber and gherkin, annual report,	conifer litter, nutrition 6167	seed, treatment, squash pests 630
	media, coal ash 8857	vectors, leaf curl, tomato pests 8786
USA 7601 Malya ann 3020	peat, nutrition 6166	virus vectors, yellow leaf curl, tomato
Malus spp. 3930	as pot plants, production 5390	pests 3808
nectar composition, onion 2088	irradiation, gamma rays, mutation	Benincasa hispida
vegetables 5899	induction 7001	flower, sex, climate 5230
Beetroot	mutants	flowering, seed sowing date 6810
annual report, UK 3613, 4365, 8584	induction *	growing, USA 5944
ascorbic acid, content, root 5172	irradiation, gamma rays 7001	medicinal properties 5944
carotene, content, root 5172	leaf cuttings 7001	nutritional value 5944
enzymes, leaf 5895	ozone, injury 1322	seed, sowing, dates, India 6810
lead, determination, atomic absorption	photoperiodism 8885	Berberis
spectrophotometry 6784	bulblet, formation 6168	air pollution, resistance, leaf, pigments
	flower bud, initiation 1356, 6168	2998
nutrient absorption	pinching 4650	frost
growth substances	seedling	resistance 2998
benzyladenine, tissue culture 1956	production, nutrition 6167	varieties, France 2158
kinetin, tissue culture 1956	raising, pots, types compared 5390	salinity, resistance, leaf, pigments 2998
nutritional value	sulphur dioxide, injury 1322	Berberis propagation, cuttings,
proteins 5172	temperature	photoperiodism 1401
vitamins 5172	flower bud, initiation 1356	Berberis shoot, alkaloids, content 2305
photoperiodism, nitrate accumulation	root, growth 6168	Berberis spp., fruit, anthocyanins 4362
1144	shoot, growth 6168	Berberis varieties
photosynthesis	tissue culture, annual report, UK 2155	annual report, Netherlands 4604
diurnal fluctuations 124	Begonia bulbil, development, photoperiodism	frost resistance 2158
soil moisture 6092	8885	Bergenia spp., propagation, rhizome 461
pigments, content, determination 5902	Begonia diseases	Berry fruits, harvesting, mechanical,
storage, annual report, UK 3614	Botrytis cinerea	bibliography 8483
	host organic acid, content 4648	Bersama spp., glycosides 3059
sugars, translocation, temperature 5987		
tissue culture leaf 1150	plant composition 2222	Betula spp.
	resistance 2222	diseases, Glomerella cingulata 4209
root	Erysiphe cichoracearum, control 7848	propagation
nutrient absorption	E. polyfaga 6229	budding 4716
growth substances 1956	mitochondrial symptoms, electron	grafting 4716
inhibition 5171	microscopy 729	rootstocks, Betula verrucosa 4716
root discs 123	virus, annual report, German Federal	B. verrucosa, trunk, stress distribution
vitamin B, content, root 5172	Republic 8837	8939
weed control 1947, 7613, 8588	Xanthomonas begoniae, annual report,	Bidens bipinnata, as weeds, citrus 6339
annual report, Canada 1944	Netherlands 6961	Biennial bearing
Beetroot diseases	Begonia flower	bud, composition, apple 5742
Bacterium scabiegenum 7614	bud initiation	carbohydrates, metabolism, apple 6584
Botrytis cinerea, resistance, cuticular wax	photoperiodism 1356, 6168	citrus, annual report, Australia 1466,
7615	temperature 1356	9074
Pseudomonas fluorescens 7614	sex 288	flower bud, drop, fruit relationships,
Rhizoctonia solani, soil, treatment 122	Begonia growth substances	pistachio 994, 3503
yellow vein netting 4390	dwarfing	fruit
Beetroot growth substances, absorption,	chlormequat 5420	quality, apple 2608
foliar, 2,4-D 2032	Pydanon 5390	thinning, growth substances, NAA,
Beetroot leaf	endogenous, determination, IAA 7289	mandarin and tangerine 801
betanin 8592	responses, chlormequat 8842	growth substances
composition	translocation, heteroauxin 1320	aminozide, pear 4279
organic acids 124	tuber	chlormequat, pear 4279
sugars 124	sprouting	endogenous
organic acids, content 8594	GA 730, 4649	apple 5742
wax, disease resistance 7615	morphactins 730	mango 3241
Beetroot nutrition	Begonia nutrition	ethephon, mango 7204
nitrogen, nitrate accumulation,	fertilizers	mandarin and tangerine 802
photoperiodism 1144	liquid, peat 6166	leaf
NPK 118	slow-release 6964	composition, apple 970-971
phosphorus 2745	peat 6166	manganese, content, mandarin and
potassium absorption 2745	Begonia propagation	tangerine 7139
potassium 2745	aerial tubers, dormancy 8886	orange, annual report, Australia 4782
phosphorus absorption 2745	cuttings	phosphorus 7/82
Beetroot pests	leaf 8884	content, apple 2589
Heterodera schachtii 1149	photoperiodism 2223	
H. trifolii 3317	temperature 2223	leaf, apple 2589
		root, apple 2589
Beetroot, root	treatment, growth substances 2223	pistachio 1039
composition 5172–5173	source plants, nutrition 8884	pruning and training
medicinal properties 5172	treatment, sugars 2223	apple 4223
Beetroot varieties 4371	leaf, tissue culture 7001	mandarin and tangerine 1477
comparative trials, annual report, UK	Begonia seed	review, mango 3238
8583	germination, temperature 8885	shoot
report, Sri Lanka 2733	sowing, dates, Korea 728	carbohydrates, content, mango 3239

Biological control contd.

Ootetrastichus beatus, parasite of,

Numicia viridis, sugar cane 8241

Subject Index	
biennial bearing contd.	Biological cor
shoot <i>contd.</i> nitrogen, content, mango 3239	Chrysopa o C. rufilabri
Biological control 2501, 4139, 5051	<i>ulmi</i> , ap
Achrysocaris promecothecae, parasite of,	coccinellids
Promecotheca cumingi, coconut 8143 Adelencyrtus miyarai, parasite of,	craccivo Comperiella
Aulacaspis tegalensis, sugar cane	parasite o
9256	Aonidi Chryso
Afromelanichneumon sporadicus, parasite of, Ascotis selenaria, coffee pests	149
1584	parasite o
Agistemus fleschneri, predator on, Panonychus ulmi, apple 4213	9097 Cordyceps
Agistemus spp., predator on,	Melamp
Eutetranychus orientalis, citrus 1488–1489	Cryptus nig
Agrobacterium radiobacter, non-	selenari Dasylagon
pathogenic biotype, inhibitor,	leucotel
Agrobacterium radiobacter, pathogenic biotype 443	Deraeocori Panony
A. radiobacter var. radiobacter,	Diatraea sp
antagonistic to, Agrobacterium	Dibrachyus
radiobacter var. tumefaciens, peach 2642	Dimmockia Promec
Agulla xanthostigma 3409	Encarsia sp
Amblyseius cucumeris, predator on, Eutetranychus orientalis, citrus 1488	spp., to: 5885
A. hibisci	Enterobact
predator on Brevipalpus californicus, citrus 1489	antagonis Pseudo
Eutetranychus orientalis, citrus 1488	dis
A. spp., predator on, Eutetranychus	P. tola
orientalis, citrus 1489 Anagrus epos, parasite of, Erythroneura	Entomophi aphids,
ziczac, grapevine 5861	E. plancho.
Anagyrus saccharicola, parasite of, Saccharicococcus sacchari, sugar cane	peach E. spp., fur
8242	sugar ca
Apanteles flavipes parasite of	Ephialtes sy Epistrophe
borers, sugar cane 9255	peach
Diatraea saccharalis, sugar cane 2469	Eriopsis co vitis, gr
Aphytis africanus, parasite of, Aonidiella	Forficula a
aurantii, citrus 9096 Aphytis melinus	fungal para artichol
parasite of	Himacerus
Aonidiella aurantii	Hyaloides s ulmi, a _l
citrus 1492, 9097 orange 1495	Hymenobo
Aspidiotus hederae, citrus 1492 Chrysomphalus dictospermi, citrus	Batrach Hymenopte
1492	parasite
apple pests, annual report, German Federal Republic 6506	6351 parasites
Aschersonia spp., fungal parasite,	artich
Dialeurodes citri, citrus 8081	insects, cof
Ascogaster quadridentata parasite of, Grapholitha funebrana, plum 6660	hebes, s
Aspergillus flavus, fungal parasite, Cydia	Lathroleste brunniv
pomonella, apple 1768, 8396 Bacillus thuringiensis 447	Netherl
Desmia funeralis, grapevine 1922	Leptothrips Panony
Mythimna phaea, sugar cane 8234 Paramyelois transitella, almond 4955	Leskia auro
Pieris rapae, cabbage 1172, 4427, 7657	Lixophaga
Plutella maculipennis, cabbage 6798 P. xylostella, cabbage 4427	sacchar L. sphenop
Spodoptera frugiperda, cabbage 4427	obscuru
Trichoplusia ni cabbage 1172, 4427, 7657	Lymaenon rubrom
annual report, USA 8585	Metarrhiza
lettuce 5913 watermelon 6824	Mogani Metaseiulu
Beauveria bassiana, fungal parasite, Cydia	predator
pomonella, apple 1768, 8396 Campoplex spp. 3409	Eotetr 192
Cephalosporium aphidicola, fungal	Tetran
parasite, aphids, cucumber and gherkin 5956	grap peac
Chelonus starkii 3409	Microdus o
Chilocorus bipustulatus, predator on, scale	mites
insects, citrus pests 1490 C. cacti, predator on, Aonidiella aurantii,	predator mites
citrus 9096	citri fig
C. nigritus, predator on, Aulacaspis tegalensis, sugar cane 9256	fruit

Chrysopa carnea, predator on, Panonychus ulmi, apple 4213

C. nigricornis, predator on, Panonychus ulmi, apple 4213

```
ple 4213
                                                                Opius concolor, parasite of, Dacus oleae,
               predator on, Aphis
                                                                   olive 6377
              ra, legumes 6846
                                                               Orius insidiosus, predator on, Panonychus
              bifasciata
                                                                   ulmi, apple 4213
                                                                Paecilomyces fumoso-roseus, fungal
                                                                   parasite, Zephodia convolutella, small fruits 7498
              iella aurantii, citrus 9096
              omphalus aonidum, citrus
                                                                Pheidole megacephala, predator on,
              of Aonidiella aurantii, citrus
                                                                    Rhabdoscelus obscurus, sugar cane
                                                                    5653
                                                               Phytoseiulus persimilis
              heteropoda, fungal parasite,
              salta puer, sugar cane 1638
                                                                  predator on
              gropictus, parasite of, Ascotis
a, coffee pests 1584
                                                                     Tetranychus telarius 18
annual report, UK 8583
              aegeriae, parasite of, Ficivora
les, fig 73
                                                                        cucumber and gherkin 1193, 7687
                                                                        rose 4711
              nebulosus, predator on,
                                                                Plagiognathus politus, predator on,
              chus ulmi, apple 4213
                                                                    Panonychus ulmi, apple 4213
              p., review 1640
                                                                Pronematus spp., predator on,
               cavus 3409
                                                                    Eutetranychus orientalis, citrus
                                                                    1488-1489
               javanica, parasite of,
              otheca cumingi, coconut 8143
                                                                Pseudomonas fluorescens
                                                                  antagonistic to
                                                                     Pseudomonas tolaasi, mushroom diseases 3828
              nato, annual report, UK
              er aerogenes
                                                                     P. tolaasii 2905
              stic to
                                                                P. spp.
              omonas tolaasi, mushroom
                                                                  antagonistic to
              eases 3828
easii 2905
                                                                      Colletotrichum lagenarium 5952
                                                                      Fusarium roseum, carnation 2922
              thora aphidis, fungal parasite, peach 1022
                                                                     Pseudomonas tolaasi, mushroom
                                                                        diseases 3828
              niana, fungal parasite, aphids,
                                                                     P. tolaasii 2905
                                                               review 4930
              gal parasite, Mythimna phaea,
              ane 8234
                                                                  sugar cane pests
                                                                                         2470
                                                                Scambus spp. 3409
                                                                Scolothrips indica, predator on,
              balteata, predator on, aphids,
                                                                    Eutetranychus orientalis, citrus 1489
                                                               S. indicus, predator on, Eutetranychus orientalis, citrus 1488
              nnexa, predator on, Eriophyes
              apevine 5134
uricularia 3409
                                                               S. sexmaculatus, predator on, Tetranychus pacificus, peach 81
Scopulariopsis brevicaulis, fungal parasite,
              sites, Capitophorus horni.
              ce, globe 3635
apterus 3409
                                                                    Cydia pomonella, apple 1768, 8396
              spp., predator on, Panonychus ople 4213
                                                                Scymnus gracilis, predator on,
                                                                    Eutetranychus orientalis, citrus
1488–1489
              smina spp., parasite of,
nedra amydraula, date 1514
                                                                Stenocranophilus quadratus, parasite of,
                                                                    Saccharosydne saccharivora, sugar cane 8243
              era
of, Lecanium deltae, citrus
                                                                Stethorus punctum, predator on,
Panonychus ulmi, apple 4213
Syrphus spp., predator on, Brevicoryne
brassicae, cabbage 8624
              of, Capitophorus horni,
              oke, globe
                              3635
              ee pests 5622
              airii, fungal parasite, Mogannia
ugar cane 9257
                                                                S. vitripennis, predator on, aphids, peach
              s caudatus, parasite of, Ardis
                                                                Telenomus alecto, parasite of, Chilo
              entris, rose, annual report,
                                                                    infuscatellus, sugar cane 1641
                                                                Tetradonema plicans, parasite of, sciarid flies, mushroom 7836
Tetrastichus spp., parasite of,
Thomasiniana theobaldi, raspberry
              ands 6961
s mali, predator on,
schus ulmi, apple 4213
              a 3409
              diatraeae, parasite of, Diatraea alis, sugar cane 2469 shori, parasite of, Rhabdoscelus 18, sugar cane 5653
                                                                Trichoderma viride
                                                                  antagonistic to, Stereum purpureum,
                                                                      plum 8476
                                                                  fungal parasite, Stereum purpureum,
plum 6659
              spp., parasite of, Tapajosa
              arginata, sugar cane 5655
anisopliae, fungal parasite,
nia hebes, sugar cane 9257
                                                                Trichogramma australicum, parasite of,
                                                                    Chilo infuscatellus, sugar cane 1641
                                                                T. spp.
              s occidentalis
                                                                  parasite of
              on
                                                                     Archips xylosteana
apple 2580
cherry 2580
              anychus willamettei, grapevine
              ychus pacificus
                       1920
                                                                Trombidium spp., predator on, Phylloxera
              evine
                                                                Tromonum spp., predator on, Phylloxe vitifoliae, grapevine 1921
Typhlodromus occidentalis predator on, Tetranychus telarius, hop 7093
T. rhenanus, predator on, Brevipalpus californicus, citrus 1489
Tythus mundulus, predator on, Perkinsiella esperanida propagator.
              h 81
              dimidiator 3409
               on
              1s
72
                  366
                                                                     Perkinsiella saccharicida, sugar cane
         fruit trees and plants 29
natural enemies, Caliroa cerasi, fruit trees
                                                                Verticillium hemileiae, fungal parasite of,
    and plants 31
                                                                    Hemileia vastatrix, coffee 1580
Oligosita spp., parasite of, Numicia viridis,
                                                                V. intertextum, fungal parasite, Pentalonia
                                                                    nigronervosa, cardamoms 6253
    sugar cane 8241
```

trol contd.

s, predator on, Panonychus

ontd.

Biological control contd.	Black currant contd.	Black currant growth substances contd.
virus	phenolic compounds, content, leaf, disease	fruit
Cydia pomonella apple 8395	resistance, Sphaerotheca mors-uvae 6675–6676	loosening ethephon 5801, 6678
apple ests, annual report, Australia	photoperiodism	mechanical harvesting 1858
450	frost resistance 4310, 6671	parthenocarpy, GA 1861
Mythimna phaea, sugar cane 8234	shoot, growth 104	set, GA 1861, 5699
Pieris rapae, cabbage 1172, 7657	planting, spacing, harvesting, mechanical	Black currant nutrition
Trichoplusia ni, cabbage 1172, 7657	3519	cobalt
of weeds 4139	pollination annual report, UK 3534	fruit composition 8486
Zetzellia mali, predator on, Panonychus ulmi, apple 1756, 4213	cross- and self- compared, fruit set	size 8486
Birch, annual report, Netherlands 4604	4312	iodine
Birds	insects 7501	fruit
damage, parakeets, guava 9174	processing, purée, varietal behaviour	composition 8486
protection against 3326	7493 production and trade	size 8486 manganese
bullfinches, pear pests 86	EEC 3343	fruit
economics, cherry 5021	UK 3343	composition 8486
grapevine 3589	pruning and training 3519	size 8486
review, tropical crops 4830 various	mechanical harvesting 2676	nitrogen frost resistance 8485
cherry 7430	radioactivity, natural 1843 seedling, production, seed source fruit	fruit, set 8485
date pests 2417	position 1862	leaf analysis 1860
Bismuth, leaf analysis, standards, fruit trees	sugars, content, light 4310	phosphorus
and plants 2496	temperature	frost resistance 8485
Bixa orellana, varieties, annual report,	dormancy, breaking 907	fruit, set 8485
Sarawak 3933 Black currant	fruit, set 5803 sums, flowering 4312, 5803	leaf analysis 1860 Black currant pests
annual report	varietal behaviour 5803	Aphis grossulariae 5079
Belgium 4297	tissue culture, shoot 2552	Cecidophyopsis ribis 4309
German Federal Republic 6669	weed control 2675, 6672, 7494	control 7496
Irish Republic 1857	winter hardiness, varietal differences	fungicides, benomyl 4309
New Zealand 5074	8484 Black currant diseases	Clepsis spectrana, population studies, mechanical harvesting 1049
UK 1856, 3514–3515, 7489 Yugoslavia 3517	arabis mosaic virus 531	Cryptomyzus ribis 5079
breeding and selection 2673	Botrytis spp. 5731	Dasyneura tetensi 7497
annual report, Sweden 5075	Cronartium ribicola 3520	Eriosoma ulmi 5079
disease resistance, Sphaerotheca mors-	control, annual report, German Federal	Hyperomyzus lactucae 5079, 5802
uvae 7492 fruit, ascorbic acid content 2674	Republic 8481 varietal resistance 3520	Plesiocoris rugicollis 5802 survey, Sweden 5802
dormancy	Drepanopeziza ribis	Synanthedon tipuliformis 6677
breaking, temperature 907	control, annual report, German Federal	Zephodia convolutella, biological control
frost resistance 6671	Republic 8481	7498
economics	varietal differences 4308	Black current propagation, cuttings,
EEC 3343	Gloeosporium spp., varietal resistance	treatment, growth substances 869
UK 3343 flowering, temperature sums 4312, 5803	Mycosphaerella ribis, varietal differences	Black currant root systems 4307
frost	4308	soil cultivation 4307
resistance	Pseudopeziza ribis 5731	Black currant seed
dormancy 6671	reversion, annual report, German Federal	composition 101
light 4310, 6671	Republic 4298	development 5083
nitrogen nutrition 8485 phosphorus nutrition 8485	Sphaerotheca mors-uvae 3520, 5731, 6674	germination, source fruit position 1862 Black currant shoot
photoperiodism 4310, 6671	control 7499	anatomy 4304
fungicides	annual report, German Federal	breakage 4304
injury	Republic 8481	Black currant soil, amendments, mushroom
copper oxychloride 4308 Morestan 7499	resistance 6675	compost, nutrient availability 6673
zineb 4308	breeding and selection 7492 varietal resistance 6676	Black currant varieties 1859 comparative trials
mite control, Cediophyopsis ribis,	Black currant disorders, fasciation 2677	Finland 8484
benomyl 4309	Black currant flower	USSR 4306
residues	biology 4311	disease resistance
fruit benomyl 4308	bud development 4311	Cronartium ribicola 3520
mancozeb 4308	bud initiation 104 nitrogen nutrition 1860	Drepanopeziza ribis 4308 Mycosphaerella ribis 4308
maneb 4308	time 5082	Sphaerotheca mors-uvae 6676
harvesting	Black currant fruit	flower bud, initiation 5082
biennial 3519	ascorbic acid	fruit, composition 8488
fruit, loosening 6678	content 1050, 2674	pollen compatibility 4312
mechanical 1046, 3519 equipment 2672	varietal differences 8488 carotene, content, varietal differences	pollination 7501 processing, purée 7493
fruit, loosening, growth substances	8488	temperature sums 5803
1858	composition 101	winter hardiness 4306, 8484
Hydrapick machine 8487	development 4311	Blackberry
labour requirements 5804 pest incidence 1049	drop 4313	annual report
shakers 5804	loosening growth substances 6678	Netherlands 6670 UK 7489
heat treatment 1690	ethephon 5801	breeding and selection, annual report,
herbicides	mechanical harvesting 1858	USA 1440, 5078
tolerance, simazine 5081, 6672	parthenocarpy, growth substances, GA	economics
translocation	1861	EEC 3343
simazine 5081 annual report, UK 3521	growth substances, GA 1861, 5699	UK 3343 frost, injury, critical temperatures 4159
yield increase, simazine 6672	nitrogen nutrition 8485	growing, German Federal Republic 750
irradiation, gamma rays, injury 3416	phosphorus nutrition 1860, 8485	harvesting, mechanical 1046
irrigation, trickle 1046	pollination 4312	irrigation, trickle 1046
light	temperature 5803	production and trade
frost, resistance 4310, 6671 sugars, content 4310	size, plant nutrition 8486 sugars, content, plant nutrition 8486	EEC 3343 UK 3343
mulching, peat 4190	Black currant growth substances	pruning and training
nutrient absorption, soil, amendments	endogenous, bud 527	mechanical harvesting, annual report,
6673	flower bud, initiation 104	New Zealand 5074

B B

Subject Index		961
Blackberry contd.	Blueberry fruit contd.	Book review contd.
pruning and training contd.	loosening, growth substances, ethephon	Balázs, K.; Vajna, L., Bogyós
time of 1052	5801	gyümölcsuek védelme [The protection
research, review 2670	parthenocarpic, growth substances,	of berry fruits] 2671
Amphorophora rubi 5079	endogenous, photoperiodism 3530 pigments 1065, 6688	Baldassari, T., Frutticoltura industriale con la nuova palmetta[Fruit growing
Aphis ruborum 5079	ripening	for industry with the new palmette
Macrosiphum fragariae 5079	anthocyanins 7517	system] 6513
M. funestum 5079	enzyme activity 88	Bean, W.J., Trees and shrubs hardy in the
Blackberry varieties	set 6688	British Isles 8283
annual report, Irish Republic 1857	flower morphology 3531	Bickford, E.D.; Dunn, S., Lighting for plant growth 8307
Himalaya 1052 processing 7505	deblossoming 3527	Brown, G.E., The pruning of trees, shrubs
register, USA 4156	nitrogen nutrition 7515	and conifers 3907
Thornfree 7505	seed number per fruit 537	Brózik, S. [Editor], Gyümölcsfajta-
Thornless Evergreen 1052	Blueberry growth substances	ismerteto [Guide to fruit varieties]
Blanching, chicory 5176	endogenous, flower bud, photoperiodism	3355 Carr, D.J. [Editor], Plant Growth
Blueberry	3530	Substances 7283
annual report Canada 538, 2669	fruit, loosening, ethephon 5801 Blueberry leaf	Childers, N. F.; Abdalla, D. A., Modern
Irish Republic 1857	analysis, standards 7514	fruit science: Laboratory manual 436
Netherlands 6670	removal, chemical 8492	Childers, N.F., Modern Fruit Science 6472
USA 3516, 5077, 7490	Blueberry nutrition 6688	Crawford, H.M.; McGourty, F.Jr.;
Yugoslavia 3517	general, leaf analysis, standards 7514	Dietz, M.J. [Editors], Herbs and their
anthocyanins 6688	magnesium 7515	ornamental uses 4607
breeding and selection 1067 annual report, USA 1440, 5078	nitrogen 7515, 8494	Crüger, G., Pflanzenschutz im
disease resistance, <i>Phytophthora</i>	fruit, composition 6690	Gemüsebau[Plant protection in vegetable growing] 3626
cinnamomi 5090	leaf abscission 8495	Emboden, W., Narcotic plants,
calcium, content, leaf, nitrogen nutrition	size 8495	hallucinogens, stimulants, inebriants
7515	sources, soilless culture 4319	and hypnotics – their origins and uses
defoliation, before weed control 8492	NPK, flower bud, initiation 8493	8970
enzyme activity determination, leaf 1063	phosphorus 7515	Finney, D.J., An introduction to statistica science in agriculture 3295
fruit, ripening 88	potassium 7515	Freidrich, G.; Preusse, H.; Reichel, M.,
fungicides, Trithion, fruit, flavour 8499	trace elements, chelates 8496	Obstbau in Wort und Bild [Fruit
growing 6685	Blueberry pests aphids, damage, red wart 7516	growing in words and pictures] 900
USSR 4299 growth-yield relationships 7515	mites, damage, red wart 7516	Fryer, J.D.; Makepeace, R.J. [Editors], Weed control handbook Vol II.
harvesting, time of 3532	Blueberry plant, size, deblossoming 3527	Recommendations 7277
herbicides	Blueberry propagation	Gherghi, A.; Mircea, I.; Millim, K.,
injury	cuttings	Valorificarea merelor și pevelor în
2,4-D 8492	treatment	stane proaspătă [Marketing fresh
paraquat 8493 hybrids 1065	fungicides 1866 growth substances 1866	apples and pears] 5706 Godin, V. J.; Spensley, P. C., Oils and
photoperiodism 6688	nutrients 1866	oilseeds 355
growth substances, endogenous 3530	Blueberry rhizome	Hentig, WU. von; Mante, W.; Steib, T.
photosynthesis 6688	bud development, nitrogen, content 1064	Gartenbau international. Beiträge zur
planting, material, cuttings and seedlings compared 2689	nitrogen, content, seasonal variations 535 Blueberry root, nitrogen, content, seasonal	Wirtschaftsgeographie des Gartenbaues. Teile 1 und
pollination	variations 535	2.[Horticulture international.
bees 536, 1066	Blueberry seed	Contributions on the economic
annual report, Canada 6668	development 1067	geography of horticulture. Parts 1 and
nesting sites 6689	germination 6688	2.] 6473
pruning and training chemical 8493	number per fruit, fruit, size 537 Blueberry soil	Hentig, WU. von; Mante, W.; Steib, T., Gartenbau international. Beiträge zur
mechanical 8493	amendments, sawdust, weed control	Wirtschaftsgeographie des
research, review 2670	8497	Gartenbaues. Teile 1 und
respiration 6688	types, seedling, growth 105	2.[Horticulture international.
seedling, growth, soil, types 105 soilless culture, nutritional studies 4319	Blueberry stem, nitrogen, content, seasonal variations 535	Contributions on the economic
weed control 7513, 8492	Blueberry varieties	geography of horticulture. Parts 1 and 2.] 6474
Agropyron repens 8497	comparative trials	Herklots, G.A.C., Vegetables in south-east
winter hardiness	annual report, New Zealand 5074	Asia 5147
desiccation 6688	USA 8491 disease resistance, <i>Botryosphaeria dothidea</i>	Hess, D., Pflanzenphysiologie [Plant
nitrogen nutrition 7515 yield-growth relationships 7515	1868	Physiology] 6475 Hutchinson, J., British wild flowers 434
Blueberry diseases	processing 5092	Janick, J., Horticultural Science 1670
Botryosphaeria dothidea 1868	register, USA 3356	Jones, G.E.; McGourty, F., Jr. [Editors],
varietal resistance 1868	Blumea eriantha, essential oil, medicinal	Rhododendrons and their relatives
Monilinia vaccini-corymbosi, annual	properties 3016 B. lacera, as virus indicator plants 3966	7040 Koĭnov, G. [Editor], [Beans in Bulgaria]
report, Canada 6667 Phytophthora cinnamomi, resistance,	Blumeriella jaapii	8670
breeding and selection 5090	cherry diseases 7429, 8439	Kolesnikov, V.A., The root system of frui
red ring spot 3528	control, cherry diseases 8305	plants 1
Blueberry disorders, red wart 7516	Boletus edulis	Lousley, J.E., The flora of the Isles of
Blueberry flower bud initiation	annual report, Netherlands 6120 edible fungi 6958	Scilly 861 March R W [Editor 1 Systemic
NPK nutrition 8493	Bolting	Marsh, R.W., [Editor], Systemic fungicides 4927
pruning and training 8493	leek 4519	Mitchell, A.F., Conifers in the British
morphology, fruit set 3531	photoperiodism 5300	Isles 7034
nectar, volatile constituents 3529	temperature 5300	Mitrakos, K.; Shropshire, W., Jr.,
removal fruit, size 3527	lettuce, growth substances 5914 radish, growth substances 5941	Phytochrome 5687 Mohr, H., Lectures on
plant, size 3527	spinach 127	photomorphogenesis 7305
Blueberry fruit	varietal resistance, cabbage 4418	Noack, E.; Kallauch, W.; Hentig, W.
anthocyanins, content, ripening 7517	Bombax spp., flower, composition,	U. von, Rosenkultur unter Glas und
composition 101	polysaccharides 1426	im Freiland [Rose growing under glass
nitrogen nutrition 6690 sugars 1065	Book review Acland J.D., East African crops 376	and in the open] 7047 Ordish, G., The great wine blight 574
development 6688	Baker, J.J., Diseases of cultivated plants	Paglietta, R., La coltura del lampone[The
flavour, fungicides 8499	1957-1968 6497	cultivation of the raspberry] 5805

962		Horticultural Abstracts 19/3 Vol. 43
Book review contd.	Boron contd.	Botryodiplodia malorum, apricot diseases
Popov, P.; Dimitrov, I.; Iliev, L.;	deficiency contd.	6610
Georgiev, S., Mak Papaver	cucumber and gherkin 7683 fruit trees and plants 6499	B. spp., Venezuela, avocado diseases 9071 B. theobromae
somniferum [Poppy, Papaver sominferum] 2337	hop 6499	banana diseases 1546
Populer, C., Les épidémies de l'oidium de	nuts 6499	Bursera spp., diseases 8993
l'hévéa et la phénologie de son hôte	ornamental plants 6499	Dioscorea spp., diseases 6297
dans le monde[Epidemics of Oidium	root composition, sugar cane 8217	lily diseases 1360
heveae and the phenology of rubber	swede, annual report, German Federal	sapodilla diseases 6427
throughout the world] 6425 Purseglove, J. W., Tropical crops:	Republic 7599 symptoms	Botryosphaeria dothidea, blueberry diseases 1868
monocolyledons 2 1669	bean (<i>Phaseolus</i>) 8685	Botryotinia fuckeliana, control, grapevine
Purseglove, J.W., Tropical crops:	cauliflower and broccoli nutrition	diseases 8482
monocotlyledons 1 1668	1983	B. narcissicola, narcissus diseases, annual
Rees, A.R., The growth of bulbs 8882 Reich, W., Im Garten. Gartenarbeit nach	coffee 3197	report, UK 3874 Botrytis allii
allen Regeln der Kunst in 405	correction, growth substances,	bulb treatment, shallot diseases 1258
Bildern[In the garden. Garden work	aminozide, tagetes 5416 oil palm 3245	onion diseases, annual report, Netherlands
according to the rules of the art in 405	oil palm nutrition 1603	6772 B. cinerea
pictures] 6476 Schacht, W., Frühjahrsboten. Erster	photoperiodism, tagetes 5416	boron nutrition, strawberry diseases 581
Blütenflor im Garten [Harbingers of	vegetables 6499	cacti, diseases 2267
spring. The first flowers in the garden]	determination, methods, mandarin and	calcium nutrition, lettuce diseases 865
6125 Sahnall P. Introduction à la	tangerine 3120 disease incidence, tobacco mosaic, tomato	coffee diseases 4860 control
Schnell, R., Introduction à la phytogéographie des pays tropicaux. I.	6913	asparagus diseases 8733
Les flores – les structures. 2. Les	disease resistance, Valsa mali, apple 475	grapevine diseases 7575
milieux - les groupements végétaux	enzyme activity, grapevine 5138	growth substances, grapevine diseases
[Introduction to tropical phytogeography. I. Flora and	flower calyx splitting, carnation nutrition	5129 methods compared, strawberry diseases
structures. 2. Habitats and plant	1325	6705–6706
groups] 9120	drop, grapevine 5122	strawberry diseases 6707, 7538, 8482
Simmons, A.F., Growing unusual fruit	formation, ornamental flowers 1343	tomato diseases 8779
Smith, M.W.G., National apple register of	flower bud, initiation, grapevine 5122 flowering, autumn, lemon nutrition 1483	copper nutrition, strawberry diseases 5817
the United Kingdom 34	fruit	cyclamen diseases
Stearn, W. T., Botanical Latin 7279	composition	annual report
Stoev, K.D., Fiziologicheskie osnovy	mandarin and tangerine 7158	Austria 265
vinogradarstva[Physiological bases of viticulture] 582	strawberry 5817 disorders, apple, annual report, UK	Netherlands 6126 fig diseases 8450
Storozhenko, E. M., Bolezni plodovykh	3347	fruit storage
kul'tur i vinograda[Diseases of fruit	peel thickness, apple 6559	apple diseases 485
crops and grapes] 6517	quality, strawberry 5817	controlled atmosphere, strawberry
Stover, R.H., Banana, plantain and abaca diseases 7175	size, mandarin and tangerine 7158 leaf	diseases 7542 fig diseases 1010
Vasilev, V.N., Badem[The almond] 3363	chlorophyll, content, apple 4976	gerbera diseases 2200
Weaver, R.J., Plant growth substances in	pigments, content, apple 4976	gooseberry diseases, annual report,
agriculture 7280	leaf analysis	Netherlands 5073
Webster, J.M. (Editor), Economic nematology 2484	apple 3402 citrus 1484	graftwood storage, grapevine diseases 3568
Wilks, J.H., Trees of the British Isles in	cucumber and gherkin 7683	grapevine diseases 578-580, 1115, 1915,
history and legend 7938	oil palm 7213	1917, 2723, 3583, 7574
Borage diseases, Entyloma boraginis, control, annual report, German Federal	pest resistance, <i>Tetranychus pieroei</i> , oil palm 6411	annual report German Federal Republic 4298
Republic 7964	plant, anatomy, grapevine nutrition 5105	Yugoslavia 3517
Boron	pollen, germination, trees and shrubs	host enzyme activity, tomato diseases
absorption	3000	1296
calcium nutrition, mandarin and tangerine 6344	respiration, grapevine 5138 seed, production, ornamental flowers	host organic acid, content, begonia diseases 4648
light, sugar cane 4102	1343	host-pathogen relationships, tulip diseases
orange 6342-6343	sources	294
relative humidity, sugar cane 4102	chrysanthemum 8589 vegetables 8589	incidence, strawberry diseases 4323
sugar cane, report, USA 6382 temperature, sugar cane 4102	sugars	irradiation ionizing
application	content	artichoke, globe, diseases 604
foliar	grapevine 5122	strawberry diseases 604
capsicum 6892–6893 disease incidence, grapevine 7568	leaf, bean (<i>Phaseolus</i>) 3710 toxicity	leaf, micro-organisms, ozone, bean (<i>Phaseolus</i>) 6839
grapevine 7568	cucumber and gherkin 7683	lettuce diseases 7633
ornamental flowers 1343	enzyme activity, sugar cane 8217	annual report, German Federal
strawberry 5816	grapefruit nutrition, annual report, USA	Republic 7597, 8579
availability nitrogen nutrition	791 nitrogen nutrition	magnesium nutrition, begonia diseases, annual report, Belgium 8835
chrysanthemum 8589	chrysanthemum 8589	manganese nutrition, strawberry diseases
vegetables 8589	vegetables 8589	5817
calcium nutrition, tomato, annual report,	photographic surveys, grapefruit	nitrogen nutrition, tomato diseases 5345
Sabah 8582 chlorosis, fruit trees and plants, 7319	nutrition, annual report, USA 790 plant tolerance, irrigation water,	phytoalexins, production, capsicum diseases 1268
cold, resistance, lemon nutrition 1483	vegetables, ornamental plants, fruit	plant composition, begonia diseases 222
content	trees and plants 5163	post-harvest dips
fruit, disorders, pear 3493 leaf	root composition, sugar cane 8217	apple diseases 500
apple 6553	translocation oil palm 7212–7213	celery diseases 6948 pear diseases 5007
oil palm 7212	sugar cane 4102	post-harvest sprays, celery diseases 6948
rootstocks, plum 2657	report, USA 6382	potassium nutrition, tomato diseases
copper nutrition, onion 7750 cuttings, treatment, blueberry 1866	winter hardiness, apple 4976	5345
deficiency 3299	Boronia spp., growing, Italy 5479 Borreria spp.	pruning and training, grapevine diseases 6743
apricot nutrition 993	as weeds	raspberry diseases 7509
cacao, annual report, Ghana 7177	oil palm 4075	resistance
chrysanthemum 8861 coffee 9166	rubber 4881, 7226, 9208 tea 9272	begonia diseases 2222 capsicum diseases 5324
control measures, oil palm 9187	Botanical Latin, book 7279	cuticular wax, beetroot diseases 7615

Subject Index		963
Botrytis cinerea contd.	Botrytis tulipae contd.	Brevicoryne brassicae contd.
resistance contd.	tulip diseases contd.	resistance, brussels sprouts pests 1697,
proteins, metabolism, cabbage diseases 5935	annual report Netherlands 2219	3666
small fruits	UK 732, 7907	Brevipalpus californicus, predators, citrus pests 1489
diseases	Bougainvillea, growing, as pot plants,	B. phoenicis
annual report	production 4685	control, tea pests 8274
Irish Republic 1857 UK 3515	Bougainvillea growth substances dwarfing, MH 1384	tea pests 4898 B. spp., tea pests 5663
spore numbers, grapevine diseases 5858	growth, retardation 314	Britoa spp., growing, tropical America 377
storage diseases, grapevine diseases 1916	Bougainvillea propagation	Bromeliads
storage rots, strawberry diseases 1078 strawberry diseases 547, 1073,	budding, shield 7940 cuttings	annual report Belgium 8835
1882–1884, 3319, 4324, 7539	tip 4685	Netherlands 6126
annual report	treatment growth substances 8942	Bromine
Canada 538, 6668	IAA 2980	content
German Federal Republic 5094, 8481	IBA 2980	fruit, soil fumigation, methyl bromide, tomato 8789
New Zealand 5074	NAA 2980 Bougainvillea shoot	leaf, soil fumigation, methyl bromide,
UK 5096	anatomy 7939	tomato 8789
USA 6692 tomato, annual report, UK 5884	development 7939	soil, fumigation, methyl bromide, gerbera 5394
tomato diseases 6917	Bougainvillea soil salinity	vegetables, annual report, German
tulip diseases 3877	plant, tolerance 2161	Federal Republic 8579
varietal resistance	sodium, chlorine 2161	determination, cacao 1553
onion diseases 8737 poinsettia diseases 3916	Boxwood, organic acids, content, seasonal variations 3926	Broussonetia spp., cytology 1378
strawberry diseases 4323, 5813,	Boysenberry, insecticides, residues, fruit,	Browallia spp., air pollution, sulphur
7524–7525, 8504 R allinting Argenting lily diseases 6181	endosulfan 5812 Boysenberry diseases, virus, annual report,	dioxide, ethylene, injury 6132
B. elliptica, Argentina, lily diseases 6181 B. fabae	Canada 2669	Brunnera spp., propagation, rhizome 4613 Brunsvigia spp.
vectors	Brachiaria spp., as weeds, cucumber and	cytology 6182
Kakothrips robustus, bean (Vicia) diseases 8708	gherkin 626 B. spp, as weeds, sugar cane 7236	taxonomy, cytotaxonomy 6182 Brussels sprouts
Taeniothrips vulgatissimus, bean (Vicia)	Brachycaudus helichrysi	annual report
diseases 8708	almond pests 459	Belgium 8578
Thrips flavus, bean (Vicia) diseases 8708	control, artichoke, globe, pests 5905 Brachyrhinus rugosostriatus, strawberry	Irish Republic 1939 Malawi 8580
Botrytis gladiolorum	pests 1076	Netherlands 5151
flower infection, gladiolus diseases, annual	Brassaia spp.	UK 598, 1934, 1936–1937, 3610,
report, USA 1441, 6129 freesia diseases 2236	acaricides, injury 7024 pests, mites, control 7024	3613–3614, 4365, 5149, 5154 USA 4368
B. spp.	Brassica spp.	cadmium, determination 4389
azalea diseases, annual report, Belgium 8835	fungicidal properties 9033	cuticle, development, annual report, UK 1938
bean (Phaseolus) diseases	as medicinal plants 9033 as weeds, peach 4252	defoliation, branching 8631
annual report	Brassicas	grading, mechanical, equipment 4434
Irish Republic 1939 UK 3611	breeding and selection, disease resistance, Plasmodiophora brassicae 3652	growing industrial-scale production, Germany
bean (Vicia) diseases, annual report, UK	chloroplast, number, photosynthesis	1987
5153	8628	for processing 7646
black currant diseases 5731 annual report, UK 7489	diseases Plasmodiophora brassicae 7655	harvesting 4416 economics 8635
bulbs, diseases 6165	annual report, Australia 5882	mechanical 8635
cherry diseases 5022	resistance, breeding and selection 3652	equipment 2764, 4434 methods compared 8635
cabbage diseases, annual report,	Sclerotinia sclerotiorum, annual report,	pre-picking, sprout, size 142
German Federal Republic 7600	Australia 5882	time of
controlled atmosphere storage, strawberry diseases 3558	glycosides 8634 growing, tunnels 1261	planting, spacing, time 5886 sowing, dates 5886
gladiolus diseases 7899	herbicides, application, irrigation 603	topping 7646
lettuce diseases 7626	irrigation	herbicides, injury, haloxydine 7651
strawberry diseases, annual report, Canada 7488	furrow, herbicides, application 603 sprinkler, herbicides, application 603	insecticides, residues, determination, monocrotophos 7302
cucumber and gherkin diseases, annual	mulching, plastic 4378	lead, determination 4389
report, Netherlands 1135 fruit storage, apple diseases 1798, 4224	pests, various, control 5928 photosynthesis, chloroplast, number	nutrient absorption, lunar materials 4380 organic acids 6783
fungicides, application, method,	8628	planting
quintozene, lettuce diseases 1970	proteins, content 4941	spacing 4416, 7646
grapevine diseases 3579, 8558 hop diseases, annual report, German	seed, treatment, fungicides 3622 soil, cultivation 4378	sprout, size 142 pollination
Federal Republic 340, 7064 macadamia diseases 375	weed control 5680	electrical potential 1175
macadamia diseases 375	herbicides, application, irrigation 603	mechanism 152
onion diseases, annual report, UK 5885 post-harvest dips, apple diseases 986	Brazil, pineapple, growing 9195 Brazil nut pests, review, Bolivia 5671	proteins, determination, electrophoresis 4384
protected cultivation, strawberry diseases	Bremia lactucae	sprout
1878	assessment methods, lettuce diseases 5165	harvesting pre-picking 142
resistance, strawberry, annual report, USA 5077	infection process, lettuce diseases 7632	harvesting, pre-picking 142 planting, spacing 142
small fruits, diseases, annual report,	lettuce diseases, annual report, Irish	topping 142
German Federal Republic 6669 strawberry diseases 5731	Republic 1939 resistance, lettuce diseases, annual report,	storage 229 topping
strawberry diseases 5731 annual report, UK 3514	UK 5149	chemical, annual report, Canada 2734
B. squamosa, onion diseases, annual report,	varietal resistance, lettuce diseases 1962,	early harvesting 7646
Canada 1944 B. tulipae	1964, 4404, 6787 Brevicoryne brassicae	growth substances 5932 sprout, size 142
bulbs, diseases 3864	brassicas, pests, annual report, German	weed control 7650-7652
hail damage, tulip diseases 2256 host-pathogen relationships, tulip diseases	Federal Republic 8579 brussels sprouts pests 147, 4428	Brussels sprouts diseases Alternaria brassicae, varietal resistance
294	cabbage pests 4428	4420
soil, furnigation, tulip diseases 2959	annual report, UK 1934	Erwinia carotovora, varietal resistance
tulip diseases 3877	predators, cabbage pests 8624	4420

Brussels sprouts diseases contd.	Bulbs contd.	Cabbage contd.
Erysiphe cruciferarum, assessment	growth phases 7912	growing contd.
methods 5165	heat treatment 1690	tunnels 2758
Peronospora brassicae, varietal resistance	pests	herbicides
4420	Ditylenchus dipsaci 3864	Butisan, seedling, emergence 6795
Plasmodiophora brassicae 5194, 7655	Eumerus strigatus 7905	Mesoranil, seedling, emergence 6795
virus, annual report, UK 5153	E. tuberculatus 7905	tolerance, Ramrod, Semeron 3662
Xanthomonas campestris, varietal	Merodon equestris 7905	hybrids 3655
resistance 4420	Pratylenchus spp. 3864	disease resistance, Xanthomonas
Brussels sprouts disorders, internal	Trichodorus spp. 3864	campestris 5188
browning, calcium deficiency 4424	sheds, annual report, Netherlands 5	insecticides injury 2123
Brussels sprouts growth substances	storage	residues
branching, GA 8631	temperature annual report, UK 3834	arsenic 3329
endogenous, buds 150 responses, aminozide 5932	forcing 5634	endosulfan 2124
stopping, aminozide 5932	narcissus 4663	leaf, monocrotophos 615
Brussels sprouts nutrition	tulip 4663	plant
calcium, deficiency, internal browning	Bulgaria	carbofuran 8627
4424	apple varieties, comparative trials 5722	determination 3330
nitrogen, annual report, UK 5884	bean (Phaseolus), growing, book 8670	irradiation, gamma rays, seed, treatment
phosphorus, potassium 2739	crops, grapevine 1079	5921
Brussels sprouts pests	Bullfinches, protection against, pear pests	irrigation
Brevicoryne brassicae 147, 4428	86	green manuring 1165
resistance 1697, 3666	Bupleurum aureum, morphology 5520	plant nutrition 5191
Delia platura, infestation source 8720	Bursera delpechiana	lead
Heterodera schachtii 5194	flower, biology 8992	determination 4389
Myzus persicae 147	fruit, oil 8994	atomic absorption spectrophotometry 6784
resistance 1697	growing, India 8994 B. schlechtendalii, lignans 7101	residues 4936
Brussels sprouts seed		light
germination, pelleted seed 3623	B. spp. diseases	ethylene production, inhibition 8630
sowing, dates 5886 treatment, pelleted 3623	Botryodiplodia theobromae 8993	far red, photosynthesis 7806
Brussels sprouts shoot	Cercospora burserae 336, 8993	pigments, biosynthesis 3668
growth	die back 336	red
defoliation 8631	Burseraceae, terpenes, survey 8971	anthocyanins, biosynthesis 8630
growth substances 8631	Buxus microphylla, alkaloids, content 9013	photosynthesis 7806
Brussels sprouts varieties 4371	B. wallichiana, organic acids, content 1451	mulching, plastic 2758
annual report, UK 5885	Byturus tomentosus	mutants 3651
comparative trials 4419	raspberry pests, annual report, UK 1855,	nitrite, toxicity 5893
Belgium 4416	3514	nutrient absorption, lunar materials 4380
disease resistance	Rubus spp., pests, annual report, UK	nutritional value 4388
Alternaria brassicae 4420	1856	organic acids, biosynthesis 4432
Erwinia carotovora 4420	Cabbage	photosynthesis
Mycosphaerella brassicicola, annual	amino acids, content, dormancy 8632	annual report, Australia 6769
report, UK 4366	annual report	far red light 7806
Peronospora brassicae 4420	Austria 114	red light 7806
Xanthomonas campestris 4420 Netherlands 3653	Belgium 4363 Canada 1944, 2734, 5883	pigments biosynthesis
Bryobia arborea, population studies,	German Federal Republic 7599, 8579	ethylene 3668
fungicides, apple pests 5737	Irish Republic 1939	light 3668
B. rubrioculus, control, apple pests 7391	Netherlands 1132	pollen, size, viability 2763
Bud	New Zealand 5152	pollination, electrical potential 1175
axillary, meristem, anatomy 2912	Sabah 8582	proteins 143
terminology, fruit trees and plants 4154	St. Lucia 8577	content, plant nutrition 143
Budding	UK 1934, 1937, 4365	determination, electrophoresis 4384
bud wood, certification, India, citrus	USA 1935, 4367, 8585	respiration, plant, heat production, storag
8058	anthocyanins	1148
budwood, treatment, mutagens, peach	biosynthesis	rhizosphere, micro-organisms, phosphorus
6635	ethylene 8630	nutrition 8620
double-shield, apple 6532	growth substances 8630	seedling raising, methods compared 442
height, apple propagation 4176	red light 8630	soilless culture 4379
on mother plant, citrus 4789	bactericides	storage, respiration, heat production 1148
relative humidity, rose propagation 5475	absorption, streptomycin 6849 application	temperature, disease incidence,
seedling rootstocks in seed-bed, apple 7346	adjuvants 6849	Peronospora parasitica 8622
shield	surfactants 6849	weed competition 1981
bougainvillea 7940	translocation, streptomycin 6849	weed control 612, 1948, 1982,
rose 8951	bolting, varietal resistance 4418	3661–3662, 5190, 6028, 6778, 6795
Ziziphus mauritiana 9281	breeding and selection 4417	methods compared 8618
T, rose 8951	annual report, Yugoslavia 3619	winter hardiness
temperature, rose propagation 5475	cadmium, determination 4389	sugars, content 7662
time of	carbon dioxide injury 6782	varietal resistance 4418
cashew 9146	climate, disease incidence, <i>Peronospora</i>	Cabbage, abyssinian, pollen, size, viability
persimmon 8115	parasitica 8622	2763
Ziziphus mauritiana 9281 tunnels, plastic, rose propagation 5475	dormancy, amino acids 8632 drought, disease incidence, <i>Peronospora</i>	Cabbage, chinese amino acids, metabolism 5933
Buddleia, annual report, Netherlands 4604	parasitica 8622	annual report, UK 8584
Bulbs	ethylene	ascorbic acid, content, varietal differences
annual report, USA 3835	pigments, biosynthesis 3668	3663
cleaning, annual report, Netherlands	production	diseases
1314	growth substances 8630	cabbage yellows, incidence 614
diseases	red light · 8630	turnip yellow mosaic virus 1169
Botrytis tulipae 3864	treatment, plant, anthocyanins,	virus
in forced crops 6165	biosynthesis 8630	annual report, UK 5153
Fusarium oxysporum 3864	fasciation, seed plants 8612	leaf structure 1410
disorders, in forced crops 6165	frost	growth chambers
economics, Netherlands 2220	injury, disease incidence 146	leaf production 8617
forcing	protection, chemical 5924	plant composition 8617
media	growing in frames plastic 2738	growth substances, plant, composition,
bark, annual report, UK 6483 pine bark 880	in frames, plastic 2738	GA 1179
rooms 6165	media, compared 7605 peat 7605	insecticides residues 3328
growing, book 8882	nutrition 7604	arsenic 3329
D		W. 001110 DUM/

Subject Index		. 96:
Cabbage, chinese contd.	Cabbage leaf contd.	Cabbage seed contd.
insecticides contd.	nutrient absorption contd.	sowing
residues contd.	manganese	dates 4421
plant, methomyl 2507	surface wax 1136	direct v. transplanting 611
lead, residues 4936 leaf, structure 1410	surfactants 1136 sugars, content, seasonal variations 7662	Agricant arisagruhar artragta 6700
nutrition 141	wax	Actinomyces griseoruber extracts 6792 boron 6078
pectins, metabolism 5933	biosynthesis, inhibition, EPTC 1136	copper 6078
plant, composition, growth substances,	removal, methods, nutrient absorption	fungicides, benomyl 4425
GA 1179	1136	gamma rays 5921
planting, v direct sown 3663	Cabbage nutrition	growth substances 8616
pollen, size, viability 2763 seed	boron 1167	heat 4425
heat damage 5189	manganese nutrition 1167 molybdenum nutrition 1167	manganese 6078
sowing, dates, Czechoslovakia 141	calcium	molybdenum 6078
soil, temperature, disease incidence 614	absorption 5192	pelleted 3623 zinc 6078
sugars, content, growth substances, GA	soil analysis 5192	Cabbage soil
1179	green manures	fumigation
Cabbage, chinese, diseases Fusarium oxysporum, f. conglutinans,	irrigation 1165 types compared 1165	Meloidogyne spp., thiazone 7801
interaction, turnip mosaic 8621	iron	nematode control 5927
turnip mosaic, interaction, Fusarium	application, foliar, surfactants 1136	moisture, disease incidence 6797
oxysporum, f. conglutinans 8621	leaf, absorption, surfactants 1136	pH, disease incidence 6797
Cabbage, chinese, nutrition	manganese 1167	Cabbage varieties 4371
nitrogen 3663	application, foliar, surfactants 1136	annual report
phosphorus, soil analysis 7629 sulphur 4423	boron nutrition 1167 leaf, absorption, surfactants 1136	Sarawak 3609
deficiency 4423	molybdenum nutrition 1167	UK 598, 3610, 3613, 5149 autumn harvesting 5187
Cabbage, chinese, seed	molybdenum 1167	bolting resistance 4418
amino acids, content, ripening 8633	boron nutrition 1167	comparative trials 7641
development, amino acids, content 8633	manganese nutrition 1167	Ghana 7642
sowing, dates, annual report, German	nitrogen 1166	disease resistance 614
Federal Republic 7600 Cabbage, chinese, varieties	leaf, composition 143 sources, compared 119	Alternaria brassicae 4420
bolting resistance 8615	NPK 118, 5191	Erwinia carotovora 4420 Peronospora brassicae 4420
comparative trials 8615	annual report, Zambia 8587	Plasmodiophora brassicae 7640
disorder resistance 8615	phosphorus 1166, 6032	Xanthomonas campestris 4420
plant composition 3663	absorption 145	early harvesting 4421
Cabbage diseases	availability 120, 8619	January King, annual report, UK 5885
Alternaria brassicae, varietal resistance 4420	rhizosphere, micro-organisms 8620 sources 8619	report, Sri Lanka 2733 soilless culture, Bulgaria 4379
Aphanomyces raphani, infection process	potassium 1166, 6032	winter hardiness 4418
7654	sulphur 6079	Cacao
Botrytis cinerea, resistance, proteins,	nitrogen metabolism 6079	annual report
metabolism 5935	Cabbage pests 3665	Ghana 7177
B. spp., control, annual report, German	aphids 4383	Nigeria 4035
Federal Republic 7600 Erwinia carotovora, varietal resistance	Brevicoryne brassicae 4428 predators 8624	Sabah 9135 Sarawak 4036
4420	Contarinia nasturtii 1174	Trinidad and Tobago 9136
Peronospora brassicae, varietal resistance	Evergestis forficalis 5195	Venezuela 6391
4420	Heterodera schachtii 1149	breeding and selection 3181, 4838-4839,
P. parasitica	population studies 5927	6393
climate 8622 drought 8622	soil fumigation 5927 H. trifolii 3317	disease resistance 1548 Ceratocystis fimbriata 8131
temperature 8622	Hylemya brassicae 1173–1174	Phytophthora palmivora 9139
Phoma lingam 4425	Lygus rugulipennis 4429	haploid clones 9138
Plasmodiophora brassicae 5193, 7655	Mamestra brassicae 5195	clones, comparative trials, Indonesia
growth substances, endogenous 8623	Meloidogyne hapla 2761	4840
soil moisture 6797	M. spp., soil fumigation 7801	economics, Ghana 6392
soil pH 6797 spore numbers 6797	Pieris rapae 1172 biological control 1172, 4427, 7657	embryology 4841 enzyme activity, bean, fermentation 4048
varietal resistance 5920, 7640	control 7657	epiphytes, fungi, Marasmius scandens
Pseudomonas cichorii, frost, injury 146	P. spp. 5195	823
P. maculicola, frost, injury 146	Plutella maculipennis 7658	growing
P. marginalis, frost, injury 146	control 6798, 8626	as an intercrop
P. solanacearum, resistance 2760 P. syringae, resistance 2760	P. xylostella 5195 biological control 4427	coconut, annual report, Jamaica 4851
Sclerotinia sclerotiorum, control 7656	Spodoptera frugiperda, biological control	oil palm, annual report, Nigeria
virus, annual report, UK 5153	4427	9181
Xanthomonas campestris	Trichoplusia ni 1172, 5196, 5929	growth, habit, growth substances 8137
host-pathogen relationships 1985	biological control 1172, 4427, 7657	herbicides
hybrid resistance 5188 resistance 2760	control 7657 varietal resistance 5919	injury
varietal resistance 4420	various, control, annual report, Australia	dalapon 8134 diuron 8134
X. malvacearum, resistance 2760	7596	MSMA 8134
X. vasculorum, resistance 2760	Cabbage plant	plant sensitivity 2442
Cabbage disorders, spotted necrosis 7664	composition 1166	trunk, diameter 2442
Cabbage growth substances	organic compounds, nitrogen, sources	humidity, relative, disease incidence,
anthocyanins, biosynthesis, inhibition, IAA 8630	seed, treatment, gamma rays 5921	Verticillium dahliae 7182 hybrids, comparative trials 8132
endogenous, root, diseased plants 8623	temperature, measurement 2758	light, intensity, pest incidence, sahlbergell
plant	weight	singularis 2443
quality, 2,4-D 8616	plant treatment, Actinomyces	phenolic compounds, content, disease
weight	griseoruber extracts 6792	resistance, Ceratocystis fimbriata
2,4-D 8616	seed treatment, Actinomyces	9140
GA 8616	griseoruber extracts 6792	planting
NOA 8616 Cabbage leaf	Cabbage root, growth 1147 Cabbage seed	methods compared 9141 spacing 8133
composition, ascorbic acid 143	germination	pollination
nutrient absorption	inhibition, copper 6078	artificial, seed production 3180
iron	pelleted seed 3623	Forcipomyia spp. 2445
surface wax 1136	quality, standards, annual report, Italy	insects, breeding sites 5612
surfactants 1136	6771	polyembryony 4842

Cacao contd.	Cacao growth substances contd.	Cacti contd.
products and by-products	shoot contd.	photoperiodism, annual report, USA
butter 3186	growth contd.	8834
pod jelly 1554	GA 8137	seed, treatment, fungicides 8921
various, animal fodder 5614	Cacao nutrition 5611	Cadmium
rainfall, fruit, set 1549	calcium, soil analysis, soil pH 7180	absorption
replanting, economics 5609	magnesium, soil analysis, soil pH 7180	calcium nutrition, radish 4437
report, FAO 4046	nitrogen	radish 4437
research, Ghana 5608	leaf litter analysis 7181	determination
respiration, pod 384 shade 9141	soil analysis 7181 NPK	apple 4389 fruit 4389
disease incidence	soil analysis 7180	vegetables 4389
Phytophthora palmivora 9141	soil pH 7180	toxicity, cucumber and gherkin 157
Verticillium dahliae 7182	potassium, soil analysis, soil pH 7180	Caesalpinia tinctoria, seed, amino acids
pest incidence, Sahlbergella singularis	sulphur, leaf analysis 3173	6236
2443	Cacao pests 1696	Caesium, absorption, reduction,
statistical, design of trials 9137	Amblypelta theobromae 2444	clinoptilolite, contaminated soils, bean
temperature	ants 6394	(Phaseolus) 2789
fruit, set 1549	birds, control, review 4830	Caffeine, content, leaf, varietal differences,
pod, fatty acids 3186 transplanting v. direct sown 7179	Contheyla rotunda, alternative hosts	tea 7271
water relations 4047	9156	Calacarus carinatus, tea pests, annual report
weed control 2442, 8134	control, economics, West Africa 3182	India 1657
high density planting 8133	Distantiella theobroma 3182	C. citrifolii, banana pests 6388
review 8120	population studies 9143	Caladium spp.
yield, estimation, sampling 1547	Glenea aluensis 2444	diseases, dasheen mosaic 2975
Cacao bean	G. lebebueri 2444	pests, annual report, USA 4367
bromine, determination 1553	Helopeltis clavifer 2444	Calamintha suaveolens, essential oil 4738
composition, seasonal variations 5613	insects, control, review 1532	Calamondin
fatty acids	Lasiopus cilipes 3185	ethylene fruit, abscission 8084
determination, ion exchange chromatography 9144	Lordops aurosa 3185 Maecolaspis ornata 3185	interaction, growth substances 8084
separation 4049	mealybugs, virus vectors 1551	tissue culture, shoot, media 3103
fermentation, enzyme activity 4048	Naupactus bondari 3185	Calamondin fruit
pectins 4849	N. spp. 3185	abscission
pigments 5691	Pansepta teleturga 2444	ethylene 8084
quality, seasonal variations 5613	Pantorhytes spp. 2444	growth substances 8084
shelling, sweatings collection 4050	Pseudodoniella typica 2444	acidity, reduction, chemicals 4021
sugars, content 2446	rats, damage, disease incidence,	Calamondin growth substances, interaction,
Cacao bud, dormancy, breaking, growth	Trachysphaera fructigena 4847	ethylene, cycloheximide 8084
substances 8137	review, Bolivia 5671	Calamondin pests, Geococcus coffeae,
Carao diseases	rodents 7170 Sahlbergella singularis 3182	annual report, USA 2375
Ceratocystis fimbriata resistance	incidence 2443	Calamondin propagation, shoot, tissue culture 3103
breeding and selection 8131	population studies 9143	Calathea makoyana, pests, nematodes,
phenolic compounds, content 9140	survey, Brazil 4848	annual report, Belgium 8835
Ceratoystis fimbriata, varietal resistance	Symphylites spp. 2444	C. spp., propagation, annual report, Belgium
1548	various, Togo 5599	5386
control, economics, West Africa 3182	Xyleborus spp. 2444	Calceolaria fruit
Macrophoma spp. 4845	Cacao pod	development 277
Marasmius perniciosus, hybrid resistance	anatomy, disease resistance, Phytophthora	morphology 277
8132	palmivora 1552	Calceolaria growth substances, retardants,
M. spp. 823 Oncobasidium therobromae 3184	carbon 384	Pydanon, annual report, German Federa Republic 7843
Phytophthora palmivora 3182, 4846	nitrogen 384	Calceolaria seed
alternative host, banana 830	fatty acids, content, temperature 3186	development 277
host reactions 8136	Cacao propagation, nurseries, nutrition	morphology 277
incidence 3183	5611	Calcium
nursery stock 8135	Cacao root	absorption
pod anatomy 1552	anatomy 3172	aluminium nutrition
resistance, breeding and selection 9139	systems, soil types 9142	apple 5730
review 386	Cacao seed	bean (Phaseolus) 5974
shade 9141	production, pollination 3180	apple 5730
P. spp., planting density 8133 swollen shoot 4844, 5610	sowing, direct v. transplanting 7179 treatment, fungicides, kocide 8135	cucumber and gherkin, annual report, German Federal Republic 7599
swollen shoot virus 3182	Cacao shoot, growth, growth substances	fertilizers compared, spinach 5903
Ghana, historical review 1550	8137	fruit
vectors 1551	Cacao soil	apple, annual report, Netherlands
Trachysphaera fructigena, incidence	drainage, crop maturity 4843	4956
4847	moisture 4047	set, mandarin and tangerine 3111
various, Togo 5599	pH, plant nutrition 7180	orange 6342-6343
Verticillium dahliae 387, 7182	types, root distribution 9142	orange nutrition 7135
virus, unspecified 385 Cacao disorders	Cacao varieties	peat pH, chrysanthemum 6145
cherelle wilt	annual report, Sri Lanka 3171 disease resisance, <i>Phytophthora palmivora</i>	root, mechanism, tomato 4561 rootstocks, plum 2657
pod composition 384	4846	tomato, annual report, German Federa
rainfall 1549	disease resistance, Ceratocystis fimbriata	Republic 7599
temperature 1549	9140	vegetables 5192
various, Togo 5599	growth studies 7183	amino acids, absorption, root, pea 1239
white spot 6395	Latin America 7178	application
Cacao fruit	Cacoecia podana	foliar
drop 2445	apple pests 5738	bitter pit, apple disorders 1796
maturity, soil, drainage 4843	pear pests 5738	interaction, growth substances, bitter
set	Cacti	pit, apple 1796
pollination 2445 rainfall 1549	diseases Botrytis cinerea 2267	fruit, disorder control, internal
temperature 1549	Cylindrocarpon olidum 2267	breakdown, apple 3432 with plant protectants, apple 4990
Cacao growth substances	Drechslera cactivora 2267	boron absorption, mandarin and tangerin
biosynthesis, cherelle wilt 384	Fusarium oxysporum 2267	6344
bud dormancy, breaking, GA 8137	control 8921	boron nutrition, tomato, annual report,
shoot	Phytophthora spp., control 8921	Sabah 8582
growth	Pythium spp., control 8921	cadmium absorption, radish 4437
chlormequat 8137	Rhizoctonia solani 2267	cell wall, composition, pea 7735, 8730

Dadjeet Linesin		707
Calcium contd.	Calcium contd.	Calonectria kyotensis contd.
content	fruit	tea diseases 4109
aluminium nutrition, bean (Phaseolus)	bunch size, grapevine - 593	C. theae
5974	cell wall permeability, apple 8417	azalea diseases 2287
biennial bearing, apple 970–971	colour, apple 4980	varietal resistance, azalea diseases 7943
copper nutrition, coffee 393	composition	Calophyllum inophyllum, glycosides 3069
disease incidence, grapevine 1913	cherry 69	Calopogonium caeruleum, as a cover crop,
flower, peach 6631	orange 370	oil palm 7209
fruit	disorders	Calsularia spp., as weeds, tea 9272
disorders	apple 947, 1793, 3431	Camellia
apple 1771	annual report UK 3347	breeding and selection, chimeras 315
orange 5556	USA 3348	flowering, date, temperature 7033
pear 3493	pear 3493	genetics, chimeras 315
nitrogen nutrition, apple 4972	quality	growing, in containers, weed control
peach 6631	orange 3118	4614 ^
respiration, apple 1771	raspberry 5811	
tomato grafted on potato 8795–8796	size	injury
zinc nutrition, apple 2605, 5011 fruit disorders, pear 1031	orange 370	dichlobenil 2986, 4614 EPTC 2986
irradiation resistance, pea 1241	orange nutrition 1478	trifluralin 2986
leaf	storage life, strawberry, annual report,	temperature
apple 6553	UK 7489	flower bud, initiation 7033
bean (<i>Phaseolus</i>) 2010	volatiles, production, apple 1793 leaf	flowering, date 7033
drought	abscission	weed control 2986, 4614
sugar cane 2474	bean (<i>Phaseolus</i>), annual report, USA	Camellia bud, initiation, annual report, UK
tomato 2474	3616	4605
flooding	tissue culture, bean (Phaseolus)	Camellia diseases
sugar cane 2474, 8200	6843	Glomerella cingulata, resistance 2981
tomato 2474	colour, poinsettia 6219	Penicillium spp. 4686
nitrogen nutrition	leaf analysis	Camellia flower, bud initiation, temperature
apple 4972	apple 3402	7033
blueberry 7515	banana 9131	Camellia pests, annual report, USA 1441,
phosphorus nutrition, coffee 4859	carrot 6109	6129
seasonal variations, apple 6554	citrus 1484	Camellia propagation
varietal differences, apple 6554	coffee 1570, 3198	cuttings
mother-plant treatment, turnip 1178	mango 5631	media 3838
plant	orange nutrition 1478 peach nutrition 1018	mist, annual report, Irish Republic
diseases, tomato 7798 disorders, strawberry 4329	petiole analysis compared, grapevine	7032
potassium nutrition, pea 5243	8551	Camellia varieties, Daisy Eagleson, graft
vegetables 8702	sugar cane 412	chimera 1385
pod, bean (Phaseolus) 2010	metabolism	Cameroon, banana, production and trade
potassium nutrition, orange 1478	annual report, Belgium 902	5601
root, nitrogen nutrition, tea 8270	internal breakdown, apple 4221	Campanula
shoot	petiole analysis, leaf analysis compared,	breeding and selection 7880
root temperature, chrysanthemum	grapevine 8551	fungicides, growth reduction, benomyl
8863	phosphorus absorption, tomato 6911	6160
seasonal variations, apple 6554	phosphorus nutrition, mandarin and	hybrids, cytology 7880
varietal differences, apple 6554	tangerine 9083	light, supplementary, growth 6160
soil, chlorosis, apple disorders 1741	photosynthesis, citrus 9100	Campanula growth substances
tuber, tomato grafted on potato 8795–8796	placement ' apple nutrition 40	injury, chlormequat 6160
zinc nutrition, grapevine 1912	methods compared, root growth, apple	retardants
deficiency	8377	aminozide 6160
blossom-end rot, tomato 7790	plant, manganese content, pear 3492	chlormequat 6160
control measures, banana, annual	plant analysis, sugar cane 6437	Campanula spp., growing, as pot plants,
report, Australia 9121	potassium nutrition, mandarin and	annual report, Canada 8836
fruit disorders, apple 469, 2602-2603	tangerine 9083	Campomanesia spp., growing, tropical
internal browning, brussels sprouts	replanting, peach 1821	America 377
4424	requirements, vegetables 4381	Campoplex spp., biological control of,
mandarin and tangerine 8071	salinity damage, celosia nutrition 727	Aegeria myopaeformis 3409
phosphorus nutrition, chrysanthemum	soil analysis, soil pH, cacao 7180	Campsis × tagliabuana, taxonomy 320
1332 symptoms	sources, compared, mandarin and tangerine 7137	Canada
coffee 3198	toxicity, poinsettia nutrition 282	fruit trees and plants, varieties, register
light	translocation	5670
far red, bean (Phaseolus) 7713	bean (Phaseolus) 2028	nuts, varieties, register 5670
white, bean (Phaseolus) 7713 -	crystal formation, apple 4221	Cananga odorata essential oil
tomato 4567	growth substances, apple 961	composition, determination 8990
tipburn, strawberry 4329	temperature, bean (Phaseolus) 2028	nutrition, annual report, Sarawak 3933
tomato 4567	transpiration, apple 1775	Candida spp., leaf, micro-organisms, ozone,
tulip 1364	Yucca spp., annual report, Netherlands	bean (<i>Phaseolus</i>) 6839
watermelon, annual report, German	6962	Canna spp.
Federal Republic 7599 determination, methods 8289	zinc nutrition, orange 8073 Caliroa cerasi	diseases, Curvularia uncinata 4639
disease incidence, lettuce 865	biological control	enzymes, content, leaf 5895
disorder incidence	fruit trees and plants, pests 31	flower
apple 5005	pear pests 5051	development 5438
bitter pit	Callicarpa macrophylla, terpenes, content	morphology 5438
apple 8417	2355	plant, morphology 5439
annual report, German Federal	Callistephus spp., growing, as pot plants,	Caper diseases, vein banding 6248
Republic 8315	annual report, Canada 8836	Capitophorus horni
lenticel rot, apple 4980	Callosobruchus chinensis, resistance, bean	biological control
low temperature breakdown, apple,	(Phaseolus) pests 182	fungi, artichoke, globe, pests 3635
annual report, UK 8317	Calluna spp. breeding and selection, annual report,	Hymenoptera, artichoke, globe, pests 3635
peach, annual report, Yugoslavia 3350 stalk desiccation, grapevine 5126	Netherlands 4604	Capitulum, tissue culture, pyrethrum 9012
enzyme activity, vegetables, annual report,	growing 7040	Capsella bursa-pastoris
UK 8584	Calocarpum spp., growing, USA 1531	as weeds
essential oil, content, chamomile nutrition	Calochortus spp., tuliposides 8908	lettuce 603
3054	Calonectria kyotensis	vegetables, herbs 6777
fluorine toxicity, tomato 6932	control, tea diseases 9278	C. spp., as weeds, cabbage 1981

Capsicum	Capsicum contd.	Capsicum contd.
amino acids	growth phases 1263	soilless culture contd.
content	growth studies, inoculation, Fusarium spp.	media 236
fruit, phosphorus nutrition, potassium	6038	spraying, oil, fruit, size 3778
nutrition 6039	harvesting	storage cold 4543
leaf, phosphorus nutrition, potassium	mechanical 4542	chilling injury 6048
nutrition 6039	time of, spraying, oil 3778	enzyme activity 6047
disease incidence 2846	herbicides disease incidence, diphenamid 2843	disorders, seed browning 2099
annual report Australia 1133, 6769	injury	fruit, composition 6048
Austria 114	linuron 667	organic acids, content 4543
Canada 2734, 5883	prometryne 667	controlled atmosphere, relative
Cyprus 3604	tolerance, dinitroanilines 1267	humidity 8763
Israel 3608	irrigation	disorders, seed browning, controlled
Malawi 8580	disease resistance 4538	atmosphere 2099
Netherlands 1135, 5151	virus 6053	temperature 8763
Sarawak 3609	drip, sprinkler 3624	enzyme activity 6047, 8758
UK 3613, 6774	fruit, set 6897	temperature fruit, development 2098
USA 1130, 1935, 3618, 4367, 8585	requirements, determination 4537 salinity problems 4376, 4537	growth 2850
bibliography 5319, 7967 breeding and selection 1264, 2840, 5321	sprinkler 4376, 6891	terpenes, antifungal 7763
annual report, USA 3616, 7601	trickle 4376, 4537, 6891	tissue culture, bud 5326
disease resistance 6053	light	transpiration, root hydrostatic pressure
enzyme content 6895–6896	intensity 2095	8755
Ethiopia 5322	disease resistance 4538	varieties
F ₁ hybrids, annual report, USA 3617	leaf, characters 2095	and strains 235
ornamental value 2934	supplementary 2096	UK 6036
protein content 6896	medicinal properties 5168	vitamins, content 3339
capsaicin	mulching	water potential, leaf, root hydrostatic
content, varietal differences 3779	bitumen 6889	pressure 8755
determination 2103	fruit, pigments 6037	water relations 4537
chlorophyll, content, plant nutrition 6892	paper, plastic coated 8747 plastic 4378, 4538, 6889	root hydrostatic pressure 8755 weed control 667, 680, 2843, 6777-6778
chloroplast, activity, leaf, size 6044	soil	6890, 8588
enzyme activity	moisture 6037	review 6065
fruit	temperature 6037	Capsicum diseases_
ripening 2100	mutants, induction, grafting on Datura	bacterial wilt, varietal resistance 6888
storage 4543	stramonium 2839	Botrytis cinerea
temperature 4543	nitrite, toxicity 5893	phytoalexins, production 1268
leaf, photosynthesis 6044	nitrogen	resistance 5324
nitrogen, metabolism 8754	content	Colletotrichum capsici, host phenolic
seed	fruit	compounds, content 5325
ethylene 8758	phosphorus nutrition 8753 potassium nutrition 8753	Corynebacterium michiganense 3776 Fusarium oxysporum, f. vasinfectum,
fruit storage 6047 temperature 8758	leaf	resistance 5324
enzymes 6895	phosphorus nutrition 8753	F. spp., seed treatment 6899
leaf 5895	potassium nutrition 8753	Leveillula taurica, control 6042
essential oil, composition, determination	disease incidence 2846	mosaic, host anatomy 6894
7066	metabolism, photoperiodism 8754	Phytophthora capsici
ethylene, production, fruit, storage 8758	nutrients, content 5890	phytoalexins, production 1268
flowering 2098	as an ornamental plant 2934	resistance, breeding and selection 453
date, growth substances 4541, 5327	phenolic compounds, content, plant,	potato virus Y
growth substances 8756	disease resistance, Colletotrichum	varietal resistance 6041
sequence 5326	capsici 5325	vectors, Myzus persicae 6040
temperature 2850 forcing	photoperiodism light, sources, compared 236	potato Y 2097 host amino acids, content 2846
light, supplementary 2096	nitrogen, metabolism 8754	host enzyme activity 2846
media compared 2096	photosynthesis	host nitrogen metabolism 2846
fruit, size, spraying, oil 3778	enzyme activity 6044	Rhizoctonia spp., herbicides 2843
fungicides, additives, Nu-Film 17,	leaf growth 6044	Stemphylium solani 6043
mancozeb 6043	root hydrostatic pressure 8755	tobacco etch 2847
growing	phytoalexins 7763	vectors, Myzus persicae 6040
Bulgaria 3620-3621	pinching 3774	tobacco etch virus, varietal resistance
as a dye plant 2092	planting	6041
Ethiopia 4530 German Federal Republic 4530	date 2842	tobacco mosaic 2097 Verticillium dahliae
under glass 1139, 4535	spacing 1266, 2841, 8751 in groups 6897	irrigation 4538
annual report, Irish Republic 1939	systems 1266	light intensity 4538
artificial illumination 877	time 4535	V. spp., seed treatment 6899
economics 5156–5157, 5320	topping 2844	virus
Hungary 5320	pollination	plant density 2841
labour requirements 5156-5157	artificial 2840	producing local lesions on tobacco 66
in greenhouses 6036	time from flowering, fruit, set 6045	Venezuela 3775
plastic 4536	proteins	yield reduction, irrigation 6053
Hungary 4530	content	Xanthomonas vesicatoria
as an intercrop, pineapple 9198	fruit	host-parasite relationships, nitrogen
Israel 4530	phosphorus nutrition 8753	metabolism 2848
Japan 4530 Netherlands 4530	potassium nutrition 8753	host reactions 7794
peat 4535	leaf	varietal resistance 4532–4533 Capsicum flower
under plastic 2499	phosphorus nutrition 8753 potassium nutrition 8753	biology 6045
fruit, set 6889	pruning and training 6036	bud development 5326
protected cultivation 2159, 5159	pinching 3774	sex, growth substances 8757
as a spice plant 2092	report, Sri Lanka 2733	structure, growth substances 8757
straw bales 1142, 4535	respiration, fruit, storage 4543	Capsicum fruit
Tunisia 4369	rhizosphere, micro-organisms, population,	aldehydes, content 6048
UK 4530, 6036	growth substances, chlorflurenol-n-	amino acids, content, phosphorus
growth	hexylester, 2849	nutrition, potassium nutrition 6039
apical dominance, growth substances	seedling	ascorbic acid
8757	raising, under plastic 5338	content
seed position in fruit 6061 seed shape 6061	transport, containers, plastic 4375	nitrogen nutrition, soilless culture
seed shape 6001	soilless culture iron, sources 2845	2845 plant nutrition 6893
	1104, 3041003 2073	plant nutrition 0075

Subject Index		90
Capsicum fruit contd.	Capsicum nutrition contd.	Carbohydrates contd.
ascorbic acid contd.	phosphorus contd.	biosynthesis contd.
content contd.	leaf contd.	propagation methods, grapevine 1092
ripening 7765	nitrogen, content 8753	storage, tomato 8803
varietal differences 7765 capsaicin	proteins, content 8753 potassium 7076	temperatures, low, <i>Prunus laurocerasu</i> 7060
content	amino acids, content 1269	content
phosphorus nutrition 8752	fruit	biennial bearing, mango 3239
potassium nutrition 8752	amino acids, content 6039	bulb
determination 7764	capsaicin, content 8752	onion 7754
composition 3780, 6049	nitrogen, content 8753	shallot 6035
amino acids 1269 plant nutrition 6893	proteins, content 8753	carrot 8814
development, temperature 2098	amino acids, content 6039	disease resistance, Deuterophoma tracheiphila, citrus 3131
extract, seed germination, vegetables	disorders 8752	flower bud
2093–2094	nitrogen, content 8753	initiation, cauliflower and broccoli
flavour, post-climacteric changes 2100	proteins, content 8753	6800
number growth substances 8756	urea-metaphosphate 5323 Capsicum, ornamental, varieties 3859	sex, melon (cantaloup and musk) 8663
mulching, paper, plastic coated 8747	Capsicum pests	frost resistance, citrus 3131
phytoalexins, production 1268	aphids 4383	fruit
pigments, mulching 6037	Ĥemicycliophora parvana, control 6975	berry fruits 101
pungent principles	Hemitarsonemus latus 4539	citrus 9108
content, plant nutrition 8752	Meloidogyne arenaria, host reactions 7762	grapevine 7595
determination 4544 ripening	M. incognita, host reactions 7762	ripening banana 8127
planting systems 1266	M. javanica, host reactions 7762	grapevine 8573
post-climacteric, composition	M. spp., control 6975	growth substances, cauliflower and
2100–2102	Myzus persicae 4540	broccoli 7660
set 2098, 6897	vectors	leaf
growing under plastic 6889	potato virus Y 6040	boron nutrition, guava 8161
time from flowering, varietal differences, India 6045	tobacco etch 6040 nematodes, Brazil 9126	citrus 9108 disorders, chrysanthemum 6972
size 1270	Ostrinia nubilalis 3777, 4540	growth substances, grapevine 8569
growth substances 8756	Trichodorus christiei, control 6975	photoperiodism, okra 8749
mulching, paper, plastic coated 8747	Capsicum seed	post-prune growth, tea 3283
sugars, content, plant nutrition 6893	germination	pruning and training, tea 8267
Capsicum growth substances	irrigation 4376 temperature 2093–2094	seasonal variations
apical dominance, morphactins 8757 flower	potassium, sodium, molybdenum,	apple 5010 grapevine 1929
sex, morphactins 8757	manganese, iron, content 6059	plum 7478
structure, morphactins 8757	production	shoot, watercore, apple 8384
flowering	fruit, size 6046	storage, apple 5010
date	harvesting, time of 6046	temperature, okra 8749
aminozide 4541, 5327 ethephon 4541, 5327	sowing date 2842	water relations, apple, annual report, Australia 6523
GA 4541, 5327	direct v. transplanting, Pakistan 666	metabolism
NAA 4541, 5327	treatment	banana 9134
2,4-D 8756	capsicum fruit extract 2093-2094	biennial bearing, apple 6584
IBA 8756	fungicides 3622	bulb, storage temperature, tulip 790
fruit number	hydroquinone, methylene blue, paranitrophenol, orthonitrophenol	darkness, bean (<i>Vicia</i>) 8710 diseased plants, tomato 3803
2,4-D 8756	6899	dormancy, rhubarb 7759
IBA 8756	hypertonic salt solution, wafering 6061	drought injury, bean (Phaseolus) 772
size	nutrients 6892	fruit, growth substances, GA, grapevir
2,4-D 8756	Capsicum soil	3596
IBA 8756 interaction	cultivation 4378 micro-organisms, monoculture 237	fruiting relationships, apple 6579 irradiation, gamma rays, post-harvest,
applied	Capsicum varieties 1265, 4371	banana 6390
2,4-D, and endogenous 8756	ascorbic acid, content 7765	leaf
IBA, and endogenous 8756	capsaicin, content 3779	almond 5773
responses, chlormequat, review 8310	comparative trials, Netherlands 8751	peach 5773
rhizosphere, micro-organisms, population,	disease resistance bacterial wilt 6888	light, bean (<i>Vicia</i>) 8710 minor element nutrition, grapevine
chlorflurenol-n-hexylester 2849 Capsicum leaf	potato virus Y 6041	1113
amino acids, content, phosphorus	tobacco etch virus 6041	nitrogen nutrition, apple 39
nutrition, potassium nutrition 6039	Xanthomonas vesicatoria 4532-4533	Phalaenopsis spp. 5458
composition, amino acids 1269	economics, Hungary 1679	pruning and training, apple 3399
growth phases, nitrogen metabolism 8754	enzymes, content 6895	seasonal variations apple 8403
Capsicum nutrition 1263	greenhouse 4535 ornamental 2934	peach 3479
boron, application, foliar 6892–6893	Pakistan 666	rose 338
copper, application, foliar 6892-6893	USSR 1942	storage in roots
fertilizer application, time of 1262	Capua reticulana	seasonal variations, apple 8403
iron, sources, soilless culture 2845	apple pests 5738	vegetables 5917 storage in shoots, seasonal variations,
major elements, plant analysis 4381, 7760	pear pests 5738 Caraway	apple 8403
manganese, application, foliar 6892-6893	bibliography 8974	translocation
minor elements, plant analysis 4381	essential oil	Cucurbita spp. 5961
nitrogen 6038	composition 325	flowers,cut 2296
application, foliar, rhizosphere micro-	determination 7066	grapevine 1926
organisms, population studies 6038 leaf, colour 8752	growth, studies 6249	pea 214 sugar cane 4101
NPK 668, 5323, 7761	insecticide, residues, dimethoate 326	Carbon
phosphorus 8752	temperature, flower bud, initiation 6249	metabolism, light, blue 1673
amino acids, content 1269	Caraway flower, bud initiation 6249	nitrogen balance, mushroom 8823
fruit	Caraway fruit, histology 7973	Rhizobium leguminosarum, growth, pea
amino acids, content 6039	Caraway seed	8716
capsaicin, content 8752 nitrogen, content 8753	oil 8980 sowing, date 4730	Carbon, activated herbicides
proteins, content 8753	Carbohydrates	injury
leaf	biosynthesis	prevention
amino acids, content 6039	Cucurbita spp. 5961	strawberry 545

Carbon, activated contd.	Carissa contd.	Carnation contd.
herbicides contd.	C. spp.	tissue culture
injury contd.	propagation	meristem 717
prevention contd.	cuttings	annual report, Italy 6960
vegetables 1140	treatment	shoot-tip 2919, 2923 stem, growth substances, treatment
Carbon dioxide concentration	growth substances IAA 1011	7849
fruit	IBA 1011	topping, flowering 8856
dehiscence	sugars 1011	transport, vacuum cooling 2164
okra 7466	Carnation	water potential, plant, nutrient solution,
pecan 7466	annual report	concentration 5401
tolerance	Austria 265	weed control 2921
ornamental plants 6782	Belgium 5386	Carnation diseases
vegetables 6782	Netherlands 6126–6127, 6961	Erwinia chrysanthemi, enzyme activity 4619
content, style cavity, lily 1363	UK 4605-4606, 4622	etched ring virus
evolution, Kalanchoe spp. 8920	USA 3835	heat treatment 2920
fixation, darkness, insecticides, bean (<i>Vicia</i>) 8710	breeding and selection 711	shoot-tip culture 2920
fruit, astringency, persimmon 5594	flower, colour 268 bromine contents, soil, fumigation, methyl	flower breaking virus 2180
injury	bromide 5394	Fusarium oxysporum 716
lettuce 1157, 5915, 6782	economics	f. dianthi 5400 histology 4620
vegetables 6782	Netherlands 6137	F. roseum, biological control,
pollen, germination, lily 1363	work study methods, annual report,	Pseudomonas spp. 2922
pollen tube, growth, lily 1363	Netherlands 1314	F. spp. 714
seed, treatment, ethylene, lettuce 1154	flowering	mottle, transmission 7850
supplementary	light, supplementary 3839	mottle virus 5399
bud break, rose 3921	pinching, date 2177 fungicides	heat treatment 2920 shoot-tip culture 2920
chrysanthemum 272, 272	injury	Phialophora cinerescens 715
control systems, greenhouse 886	benomyl 714	P. spp. 714
cucumber and gherkin 5216 from diesel exhaust, injury, vegetables	ethazol 7851	Pythium vexans, control 7851
3625	metabolism, benomyl 715	ringspot virus 5399
flower	persistence, benomyl 715	streak virus
colour, rose 7949	tolerance 269	heat treatment 2920
size, rose 7949	translocation, benomyl 716 genetics, flower, colour 711	shoot-tip culture 2920 Carnation disorders, calyx splitting 4618
flower bud, initiation, rose 3920	growing	Carnation flower
fruit	economics, Netherlands 8854	bud initiation, photoperiodism 5402,
quality, tomato 4566	under glass	6142
size, tomato 4566	economics 6137	calyx splitting 4618
greenhouse	varieties 2918	colour 711
application methods, annual report, German Federal Republic 6481	media annual report, Belgium 8835	genetics 711 seed, treatment 268
flowers, annual report, USA 1315	coal ash 8857	cut
natural gas burners 1688	miniature varieties 6138	carbohydrates, translocation 2296
tomato, annual report, Irish Republic	as pot plants, production 5390	economics 4608
5150	for production throughout the year	ethylene treatment 2924, 4621
vegetables, annual report, USA 1130	6141	fluorine injury, tap water 2913
lettuce 3640	Saran house culture 8855 sub-tropics 8855	irradiation, ionizing, injury 604 packing, cooling 6969
planting, spacing, chrysanthemum	tunnels, plastic 5398	preservatives 7852
6143	growth studies	fluorine injury mitigation 2913
production, equipment 2497	seasonal variations	production, planting, spacing 5398
seedling raising kohl-rabi, 2880	light 3840	senescence
tomato, 2880	temperature 3840	respiration 7852
tomato, annual report, Belgium 1131	herbicides injury	sugars, content 7852 storage 2182
vegetables, annual report, Netherlands	pyrazon 2921	vase life 4621
1135	RH315 2921	harvesting in bud 2182
uptake, mechanism, geranium 2508	labour requirements 1330	petal numbers, genetics 711
uptake in darkness, Tillandsioideae 305	growing 8854	quality
Carbon monoxide	light artificial, cyclic and continuous	light, artificial 2181
metabolism	compared 2181	photoperiodism 6968 soil heating 5402
bean (<i>Phaseolus</i>) 1219 sugar cane 9261	intensity 3840	temperature 6968
Cardamoms	supplementary	sugars, content, senescence 7852
annual report, Sarawak 3933	flowering date 3839	Carnation flowering
bibliography 8974	growth 3839	date
essential oil 327	mutants, induction 6966 photoperiodism	photoperiodism 6968 temperature 6968
composition, determination 7066	flower, quality 6968	Carnation growth substances
determination 7974	flower bud, initiation 5402, 6142.	assimilates
growing 327	flowering, date 6968	translocation
India 7068	pigments, content, genetics 711	GA 6140
research, India, review 7968 Cardamoms diseases	pinching 2177 planting	IAA 6140 endogenous, flower 6140
mosaic 6251	methods compared 2175	Carnation nutrition
vectors 6251	spacing, seed production 5397	boron, flower, calyx splitting 1325
Pentalonia nigronervosa 5489	time, seed production 6967	general, deficiency diagnosis 2178
Cardamoms pests	work studies 2175	nitrogen, flower, calyx splitting 1325
Pentalonia ingronervosa 5489, 6252	potting composts, annual report,	NPK 4617
fungal parasites 6253 virus vectors, mosaic 6251	Netherlands 6962	flowering 1325
Pratylenchus coffeae 8153	pruning and training, flowering 8856 report, USA 6130	Carnation pests, Tetranychus spp., annual report, Denmark 3298
Carica candamarcensis, diseases, mosaic,	respiration, flower, senescence 7852	Carnation propagation
resistance 9193	shade, flowering 8856	cuttings
Carissa grandiflora	soilless culture, nutrient solution,	meristem, nutrition 717
diseases, Rhizoctonia solani 2269, 3002	concentration 5401	treatment, growth substances, SADH
soil salinity	temperature flower, quality 6968	713 meristem 5396
plant, tolerance 2161	flowering, date 6968	shoot, tissue culture, growth substances
sodium, chlorine 2161	growth 3840	treatment 7849

Subject Index		971
Carnation propagation contd.	Carrot contd.	Carrot contd.
shoot-tip culture, virus-free plants 1331,	breeding and selection 4587	proteins
2919–2920	annual report, USA 3616	content
Carnation seed production 6967	root, colour 2138 cadmium, determination 4389	iron, tissue culture 1307
fruit, set, petal removal 5403	carotene	plant, development 2894 metabolism, colchicine treatment 4591
planting, spacing 5397	content	rainfall
sowing, dates, seed production 6967	latitude 5678	disease incidence, Alternaria spp. 5166
treatment, mutagens, flower, colour 268	leaf, seasonal variations 6946	protection, plastic 5166
Carnation soil	root 8814	respiration
fumigation injury, methyl bromide 5394, 6139	seasonal variations 6946	root heat production, storage 1148
plant composition, bromine, methyl	climate, yield 8814 colchicine treatment, proteins, metabolism	salinity, tissue culture 6944
bromide 5394	4591	storage 2744
heating, flower, quality 5402	coumarins	tissue culture 4592
Carnation varieties annual report, USA 1441, 6129	biosynthesis	seedling, growth, inhibition, <i>Coronilla</i> varia seed leachate 7625
Bulgaria 2176	disease resistance 2141	soilless culture, plant anatomy 6938
comparative trials, annual report, USA	ethylene treatment 2141 drying 22	storage
8834 evaluation 8855	enzyme activity 1954	controlled atmosphere, disease incidence 695
greenhouse 2918	diseased plants 2897	growth substances
for leis (garlands) 712	inhibition 1305	treatment
miniature 6138	root	root colour 1308
Netherlands 5395	ethylene treatment 2141	root composition 1308
sub-tropics 8855 Carnegiea gigantea, diseases, Poria carnegiea	tissue culture 2140 tissue culture 694	plastic bags 1308 quality, soil types 7820
6202	essential oil	respiration, heat production 1148
Carob diseases, Pseudomonas ciccaronei	content 7983	review 7612
3984	phytoene 2898	rots
Carob fruit, composition 3096 Carob pests, Eumarchalia gennadii,	ethylene disease resistance 2141	Erwinia spp. 1308 Fusarium spp. 1308
biological control, annual report, Cyprus	enzyme activity, root 2141	for seed production 692
3980	flavonoids 3340	temperature 6114
Carob varieties, register, USA 3356	growing	respiration 2744
Carotene biosynthesis, environmental factors 21	in frames, plastic 2738 media, compared 7605	temperature, root, composition 8814 tissue culture 121, 8001
content	Nigeria 5371	annual report, UK 1938
boron nutrition, spinach 126	peat 7605	cambial tissues, propagation, salinity
environmental factors, carrot 5375	nutrition 7604	tolerance 8812
fruit 3339 growth substances, tomato 6094	under plastic varieties 8808	cell suspension 1306, 7819 fatty acids, metabolism 8591
Hippophaë spp. 6238	weed control 7627	cells, enzyme activity 694
Sorbus aucuparia 2665	polar regions, root, composition 5375	embryogenesis, oxygen concentration
varietal differences, black currant	symposium, Canada 8500	4593
8488 irradiation, ionizing, post-harvest,	tunnels, plastic 5166, 5373, 5373 harvesting, mechanical, root, injury 6114	root 259–260, 1307, 2899, 6945 enzyme activity 694, 2140
mango 1595	herbicides	respiration 4592
latitude, carrot 5678	injury	salinity 6944
leaf	chlorbromuron 7816	tissues
light, intensity, cucumber and gherkin 4459	linuron 7816 prometryne 7816	growth substances, treatment 8813 light 8813
seasonal variations, carrot 6946	plant, composition, prometryne 5376	media 8813
spice plants 4728	residues, root, prometryne 5376	photosynthesis 8813
manganese nutrition, spinach 126	insecticides	vitamins, content 3339
molybdenum nutrition, lettuce 7630 plant nutrition	application as emulsifiable concentrates,	washing, damage 6114 water relations, root 1223
lemon 3112	chlorpyriphos 2506	weed control 2116, 3821, 5376, 6777,
tomato 254	as granules	6780, 7627, 7816–7817, 8809–8810
root	chlorpyriphos 2506	Digitaria spp. 8809
beetroot 5172 carrot 5375, 8814	placement 5374 persistence, chlorfenvinphos 6942	Setaria spp. 8809 windbreaks, plastic 5373
seasonal variations, carrot 6946	residues	Carrot diseases
storage, carrot 1308	determination	Alternaria dauci, incidence, Nigeria 5371
tropical spinach 6119	chlorpyrifos 4142	A. porri 693
vegetables 3339 water relations, tomato 254	monocrotophos 7302 plant, lead arsenate 1951	A. radicina 2139 A. spp., incidence, Nigeria 5166
degradation, storage, lettuce 7636	irrigation	Centrospora acerina 6116
Carotenoids, content, fruit, citrus, annual	furrow 7815	Ceratocystis fimbriata, resistance 2141
report, USA 8051	sprinkler 116, 7815	Phoma rostrupii, host enzyme activity 2897
Carpobrotus spp. ground cover plants 710	lead content, insecticides, residues 1951	Rhizopus stolonifer 695
herbicides, injury 1323	determination 4389	Stemphylium botryosum 2139
weed control 710	mulching, plastic 2895	S. radicinum, varietal resistance 4588
Carposina niponensis, forecasting, apple	nematicides pest population increase	virus, incidence, German Federal Republic 6781
pests 1757 Carrot	Basamid 8811	Carrot flower, male sterility 7812
amino acids, content, iron, tissue culture	Di-Trapex 8811	Carrot growth substances
1307	nitrite, toxicity 5893	nucleic acids, metabolism, tissue culture
annual report Austria 114	nucleic acids 4590 metabolism 226	1307 seed
Belgium 1131, 4363	growth substances, kinetin, tissue	production, MH 6947
Canada 1944, 2734, 3603, 5883	culture 1307	quality, MH 6947
Cyprus 3604	iron, tissue culture 1307	size, MH 6947
German Federal Republic 7598–7599, 8579	phosphorus, tissue culture 1307 nutrient absorption	storage BA
Irish Republic 1939	major elements 2896	root colour 1308
Netherlands 6772, 8581	minor elements 2896	root composition 1308
New Zealand 5152	nutrients, content 5890	Carrot nutrition
UK 1934, 1937, 5154 USA 4367, 7601, 8585	photoperiodism, root, composition 5375 pigments 8001	calcium leaf analysis 6109
arsenic, content, insecticides, residues	genetics 2138	requirements 4381
1951	pollination, bees, seed production 5899	copper, seed treatment 6108

Carrot nutrition contd.	Carrot soil	Catharanthus roseus contd.
magnesium, leaf analysis 6109	salinity, plant tolerance 8812	seed
major elements 2896	temperature, mulching 2895	anatomy 3968
plant analysis 4381 minor elements 2896	types plant composition 7818	Ocimum sanctum leaf extract 8011
plant analysis 4381	root composition 5375, 7820, 8814	X-rays
nitrogen	root shape 6941	flowering 8010
disease incidence 693	storage quality 7820	pollen sterility 8010
leaf analysis 6109	Carrot stem, anatomy 4586	seed number per fruit 8010
NPK 118	Carrot varieties 4371	seedling, treatment, Ocimum sanctum leaf
annual report, UK 1936	annual report, UK 5149 Chile 258	extract 8011 tissue culture
phosphorus	comparative trials, New Zealand 7811	alkaloids, production 7102
leaf analysis 6109 requirements 4381	disease resistance, Stemphylium radicinum	tissues, media 7102
root, shape 6941	4588	Catharanthus spp., alkaloids, content 770
potassium, requirements 4381	male sterile 7812 Netherlands 8808	Catharanthus spp. alkaloids, content 771, 7103
sulphur	Paris Market, seed sources, variation	leaf, anatomy 2335
leaf analysis 6109	5372	root, anatomy 2335
requirements 4381 Carrot pests	under plastic 8808	stem, anatomy 2335
Paratylenchus spp., soil treatment 8811	report, Sri Lanka 2733 stem, anatomy 4586	Cation exchange capacity determination, coffee 398
Psila rosae 5374	USSR 1942	leaf, areca 3176
annual report, UK 3614	Carya spp., disorders, shuck disease 520	root
control 6942	Caryedon serratus, Colombia, tamarind	areca 3176
Trioza viridula, plant composition 6943	pests 5666	Chlorophytum spp. 4144
Carrot plant anatomy, soilless culture 6938	Caryophyllaceae medicinal properties, haemolytic activity	Fragaria spp. 4144 Spinacia spp. 4144
composition, <i>Trioza viridula</i> 6943	3967	squash 4144
development, proteins, content 2894	saponins 3967	Catopsis spp., photosynthesis 305
morphology 4589	Cashew	Cattleya spp.
Carrot root	annual report, Nigeria 4035	diseases
carbohydrates, content 8814 carotene, content, environmental factors	growth studies, annual report, Burundi 4031	cymbidium mosaic 8937 flower necrosis 8937
5375	production, review 9145	taxonomy, chemotaxonomy 8934
cell, structure, tissue culture 6945	Cashew flower, morphology 7184	tissue culture, meristem, annual report,
chlorophyll, biosynthesis 259	Cashew fruit	Italy 6960
colour, genetics 2138	ascorbic acid 4850	Cauliflower and broccoli
composition environmental factors 5375	composition 4850 tannins 4850	amino acids, metabolism 5936 annual report
seed	Cashew growth substances	Austria 114
production 692	air-layering	Belgium 1131
sowing, date 692	treatment	Denmark 3298
soil, types 7820 flavour 7821	IBA 6396 NAA 6396	German Federal Republic 8579 Irish Republic 1939
maturity, carotene, content 8814	Cashew propagation	Italy 6771
nitrogenous compounds, determination	air-layering, treatment, growth substances	Netherlands 1132
7821	6396	New Zealand 5152
nutrient absorption, tissue culture	budding, time of 9146	UK 598, 1934, 1936–1937, 3610,
6110–6112 proteins, content 4941	grafting, veneer 9146 Cassava, growing, as an intercrop, rubber	3613–3614, 4365–4366, 8584 USA 1130
shape .	8178	breeding and selection
measurement techniques 2142	Cassia angustifolia	annual report, USA 3616, 7601
phosphorus nutrition 6941	glycosides 6290	autumn harvesting 6791
soil type 6941 statistical studies 690	tissue culture, callus, quinones 9027 C. fistula	carbohydrates content
size	anthocyanins 4717	flower bud, initiation 6800
measurement techniques 2142	galactomannan 3070	growth substances 7660
statistical studies 690	C. occidentalis	cold treatment, seedling 7659
sugars, determination 7821	glycosides 9029 quinones 9028–9029	development growth substances 3667
Carrot seed germination 691	sterols 9028–9029	development, growth substances 3667 formation, growth substances 7661
pelleted seed 3623	C. spp.	maturity 3658
temperature 2093-2094, 6940	bibliography 8974	quality, seedling storage 7638
production	glycosides 3071	size 3658
growth substances 6947 harvesting, time of 6113	nutrition, NPK 9026 quinones 3071	drying 22 enzyme activity, diseased plants, <i>Pythium</i>
pollination, bees 5899	Castanea mollissima, annual report, USA	spp. 8791
seed, sowing, date 692	25	flowering, growth substances 7661
seed sowing dates, Bulgaria 7814	Casuarina spp., as shade plants, coffee	growing
quality, growth substances 6947 size 7813	4858 Catechins	media, compared 7605
growth substances 6947	content	peat 7605 under plastic 7647
harvesting, time of 6113	leaf	for production throughout the year
sowing	seasonal variations, Pyrus spp. 6646	7638
dates 7813	varietal differences, tea 7271	tunnels, plastic 7647
Chile 258 root, composition 5375	shoot, seasonal variations, <i>Pyrus</i> spp. 6646	growth studies 6793 harvesting
seed production, Bulgaria 7814	Catha edulis, essential oil, content 3072	annual report, UK 2743
USSR 1304	Catharanthus lanceus, alkaloids 6291	mechanical, equipment 5937-5938
furrow-bed system 7815	C. longifolius, alkaloids 9030	once-over 5186
mechanical, equipment 6939 spacing 2893, 7813, 7815	C. roseus	time of 3658
treatment	alkaloids, production, tissue culture 7102 diseases, little leaf, control, antibiotics	plant maturity criteria 4433
acetone 691	7767	seedling storage 7638 herbicides
capsicum fruit extract 2093-2094	flower	maturity 1164
copper 6108	anatomy 3968	plant
fungicides 693, 3622 gamma rays 691	nectary, structure 8009	size, dazomet 7649
light, ultra violet 691	flowering, Ocimum sanctum leaf extract 8011	thinning 7648 residues, application, methods, pyrazon
pelleted 3623	fruit, anatomy 3968	dalapon, RH 315, DCPA, nitralin,
sterilization, disease control 693	glycosides 4760	trifluralin 1949
viability, harvesting, time of 6113	plant, composition 9031	tolerance Ramrod Semeron 3662

Subject Haex		97
Cauliflower and broccoli contd.	Cauliflower and broccoli nutrition contd.	Cauliflower and broccoli varieties contd.
insecticides	boron contd.	disease resistance, Peronospora brassicae
residues	deficiency, symptoms 1983	3654
determination	calcium, requirements 4381	processing
chlorpyrifos 4142 monocrotophos 7302	copper 1983 deficiency, symptoms 1983	annual report, German Federal Republic 7600
endosulfan 2124	iron 1983	freezing 1177
soil	deficiency, symptoms 1983	for production throughout the year 763
aldrin 4431	magnesium, requirements 4381	report, Sri Lanka 2733
DDE 4431	major elements, plant analysis 4381	summer harvesting 3669
DDT 4431	manganese 1983	Sweden 115
dieldrin 4431 lindane 4431	deficiency, symptoms 1983	USA 8614
irradiation, ionizing, injury 604	minor elements	winter hardiness 7638 Ceanothus nutrition, nitrogen, container-
irrigation 613	availability, nitrogen nutrition 8589 plant analysis 4381	growth plants 267
juvenility	sources 8589	Ceanothus propagation, cuttings, media
leaf removal 7644	toxicity, nitrogen nutrition 8589	8845
light 7644 temperature 7644	molybdenum 1983	Cecidomyia texana, Cyamopsis
light, juvenility 7644	deficiency, symptoms 1983	tetragonoloba pests 5269 Cecidophyopsis ribis
nitrogen, content, growth substances	nitrogen	black currant pests 4309
7660	curd	control
nutrient absorption 6794	maturity 3658	black currant pests 7496
nutrients, content 5890	size 3658	fungicides, benomyl, black currant pest
organic acids 6783 photosynthesis, gas exchange ratio 2915	disorder incidence 3657 requirements 4381	4309 Cedar propagation
planting	sources	grafting
plant, size 3659	compared 144	bench grafting 4687
spacing 3658	minor elements 8589	side cleft 4687
disorder incidence 3657	minor elements toxicity 8589	Cedar rootstocks 4687
pollen, size, viability 2763	NPK 613	Cedrus atlantica, essential oil, composition,
respiration, plant, temperature 2744 seedling	phosphorus availability 120	determination 8990 Celeriac
emergence, soil, compaction 4409	requirements 4381	annual report, Belgium 1131
storage, plastic bags 7638	potassium, requirements 4381	growing
soilless culture 4379	sulphur, requirements 4381	media, compared 7605
storage 229	zinc 1983	peat 7605
cold, ascorbic acid, content 3670	deficiency, symptoms 1983	hybrids, root storage quality 2902
temperature, respiration 2744 temperature	Cauliflower and broccoli pests aphids, virus vectors, mosaic 2759	irrigation, hollow tubers 6118 planting, spacing, hollow tubers 6118
flower bud, initiation 6800	Hylemya brassicae 1173	proteins, content, root, storage quality
growth substances, endogenous 3667	chemosterilization 8625	2902
juvenility 7644	traps, bait 8625	storage, root, quality, hybrids 2902
tissue culture 121	H. spp. 1162	Celeriac diseases, Sclerotinia spp., control,
weed control 1162, 1164, 3662, 6778, 7648–7649, 7652	annual report Canada 1944, 5883	annual report, German Federal Republic 7600
annual report, German Federal	UK 5154	Celeriac disorders, hollow tubers, water
Republic 7599	Meloidogyne hapla 2761	relations 6118
review 5925	Myzus persicae, virus, vectors 1168	Celeriac root, composition, storage quality
Cauliflower and broccoli diseases	Trichoplusia ni 5929	2902
Alternaria brassicicola 1170 cabbage yellows, incidence 614	Cauliflower and broccoli plant composition, nitrogen 144	Celeriac varieties annual report
mosaic, vectors, aphids 2759	size	Belgium 4363
Mycosphaerella brassicicola 1170	herbicides 7649	Irish Republic 1939
necrotic yellows virus 1984	planting 3659	comparative trials 3823
Peronospora brassicae, varietal resistance	weight, growth substances 7660	Celeriac x parsley, hybrids 2902
3654 Plasmodiophora brassicae, varietal	Cauliflower and broccoli root growth 1147	Celery annual report
resistance 5920	injury 6796	Belgium 1131
Pythium spp.	Cauliflower and broccoli seed	Cyprus 3604
control 6920	annual report, Belgium 4363	UK 601, 1934, 1937, 3613, 5149,
host enzyme activity 8791	germination 2622	6774, 6774, 8584
P. ultimum 1171 turnip mosiac virus 1168	pelleted seed 3623 soil, moisture 4409	USA 4367, 7601, 8585 bibliography 8974
Xanthomonas campestris 3664	production, disease control 1170	breeding and selection, annual report,
Cauliflower and broccoli disorders, hollow	sowing	USA 3616
stem, incidence 3657	dates	cadmium, determination 4389
Cauliflower and broccoli flower	autumn production 3669	carbon dioxide injury 6782
bud initiation carbohdrates 6800	Bulgaria 6793 summer production 3669	enzyme activity leaf
growth substances	direct v. transplanting 1162	coloured light, disease incidence
GA 6800	mechanical, equipment 1162	8816
SADH 6800	peat 7606	light intensity, disease incidence
temperature 6800	programme, continuous production	8816
Cauliflower and broccoli growth substances curd, formation, morphactins 7661	1163 spacing 5186, 7648	enzymes, diseased plants, light 8816 essential oil, fungicidal properties 6256
endogenous	treatment	fungicides 6230
apices	pelleted 3623	residues
curd development 3667	vernalisation 7644	determination
temperature 3667	Cauliflower and broccoli soil	benomyl 7609
flower bud initiation	compaction 4409 moisture 4409	thiophanate 7610 fentin acetate 2900
aminozide 6800	temperature, disease incidence 614	growing 2900
GA 6800	Cauliflower and broccoli varieties 1161,	early harvesting 3822
flowering, morphactins 7661	4371	under plastic 4594
plant	annual report	annual report, UK 6773
composition, GA 7660	Sarawak 3609	tunnels 1261
weight, GA 7660 residues, plant, chlormequat 5198	UK 5149 USA 4367	plastic, annual report, UK 4366 humidity, relative 8815
Cauliflower and broccoli leaf, removal,	autumn harvesting 3669, 7643	irrigation
juvenility 7644	comparative trials 3615	flood
Cauliflower and broccoli nutrition	annual report, UK 5884	disease control 2144
boron 1983	French West Indies 5918	nematode control 2144

Celery contd.	Celery soil	Ceratitis capitata contd.
lead, determination 4389	erosion, direct sown seed 5377	poisoned bait, orange pests 7165
light	moisture, 696	C. spp., protein bait mixtures, orange pests
coloured, disease incidence, enzyme	Celery varieties	816
activity 8816	annual report, Sarawak 3609	Ceratocystis adiposa, sugar cane diseases
intensity	comparative trials, Netherlands 8815	4097
disease incidence, enzyme activity	greenhouse, plastic 4594	C. fimbriata
8816	Cell	apricot diseases 63
photosynthesis 2901	biology 1673	control, rubber diseases 6384, 9212–9213
nematicides	division stimulation, tissue culture, turgor	resistance
pest population increase	pressure, radish 1181	breeding and selection, cacao diseases 8131
Basamid 8811	xylem formation, coleus 3901	carrot diseases 2141
Di-Trapex 8811 nitrite, toxicity 5893	enlargement	coffee diseases 391
photosynthesis, light, intensity 2901	stimulation	phenolic compounds, content, cacao
planting	fusicoccin, tissue culture, pea	diseases 9140
spacing 8815	8727–8729	rubber diseases 4078–4079
annual report, Netherlands 1135	growth substances, tissue culture, pea	varietal resistance
potting composts, annual report, New	8727–8729	cacao diseases 1548
Zealand 5152	tissue culture, turgor pressure, radish 1181	annual report, Venezuela 6391
respiration	water permeability	coffee diseases 4055
diurnal variations 2901	growth substances	C. paradoxa
plant, heat production, storage 1148	decenylsuccinic acid	resistance, breeding and selection, sugar
temperature 2901	onion 5313	cane diseases, annual report, USA
soilless culture 5487	Rhoeo spp. 5313	9221
storage	Cell sap, concentration, nutrient solution,	sett treatment, sugar cane diseases 8228
dips	concentration, grapevine 6749	soil moisture, sugar cane diseases 8227
disease control	Cell wall	sugar cane diseases 6431, 7240
Botrytis cinerea, thiabendazole	biochemistry 1673	annual report
6948	composition	Australia 9219
Cercospora apii, thiabendazole 6948	calcium, pea 7735 ethylene, pea 7735	USA 9221
Sclerotinia sclerotiorum,	fruit, apple 6603	temperature, sugar cane diseases 8227
thiabendazole 6948	growth substances	C. stenoceras, Erica spp., diseases, annual
Septoria apii, thiabendazole 6948	chicory 7623	report, German Federal Republic 8837
disease incidence, Centrospora acerina	pea 7735	Ceratonia siliqua, trunk, stress distribution
2145	leaf, tea 6464	8939
respiration, heat production 1148	structure, bean (Vicia) 203	Cercospora angolensis, citrus diseases 400
review 7612	Celosia	C. apii
temperature 8815 respiration 2901	light, pigments, biosynthesis 6994 ozone, injury 1322	forecasting, celery diseases, annual report
weed control 5377, 6777, 8977	pigments	USA 4367
Celery diseases	biosynthesis	post-harvest dips, celery diseases 6948
Botrytis cinerea	inhibition 6994	post-harvest sprays, celery diseases 6948
post-harvest dips 6948	light 6994	Cercospora burserae, Bursera spp., diseases
post-harvest sprays 6948	sulphur dioxide, injury 1322	336, 8993
Centrospora acerina 6116	Celosia argentea, growing 7823	Cercospora coffeicola
plant storage 2145 Cercospora apii	Celosia flower, size, potassium nutrition 6133	coffee diseases 1574, 1576 nitrogen nutrition, coffee diseases 9167
post-harvest dips 6948	Celosia growth substances, retardants,	C. fusimaculans, Stenotaphrum secondatum
post-harvest sprays 6948	review 7846	diseases 7023 .
Fusarium spp. 2144	Celosia nutrition	Cercospora koepkei, sugar cane diseases
mosaic 4595	calcium, salinity damage 727	1635, 6444
Pythium spp2144	potassium, flower, size 6133	C. longipes, East Africa, survey, sugar cane
Rhizoctonia spp. 2144	Celosia seed	diseases 8220
Sclerotinia sclerotiorum	germination, salinity, damage, calcium	C. musae
post-harvest dips 6948	nutrition 727	banana diseases 1542
post-harvest sprays 6948 Septoria apii	sowing, direct, in pots, pelleted 2165 treatment, pelleted 2165	forecasting, banana diseases 6386 C. purpurea, avocado diseases, annual
post-harvest dips 6948	Celosia soil, salinity, damage, calcium	report, USA 2375
post-harvest sprays 6948	nutrition 727	C. spp.
S. apii-graveolentis 2143	Cemiostoma scitella, apple pests 5738	capsicum diseases, annual report, USA
S. apiicola 2900	Centaurea spp., embryology 279	4367
control 7822	Centrospora acerina	control
pathogenicity 8816	carrot diseases 6116	bean (Phaseolus) diseases 8690
virus, incidence, German Federal Republic	celery diseases 6116	grapevine diseases 8559
6781 Celery flower, bud initiation 6117	parsnip diseases 6116 plant storage, celery diseases 2145	Ficus elastica, diseases 5452 jasmine diseases 336
Celery nutrition	Cephaleuros virescens, litchi diseases 4818	Ligustrum spp., diseases 6240
minor elements	Cephalocereus spp., edible fruits 822	oil palm diseases, annual report, Nigeria
availability, nitrogen nutrition 8589	Cephaloleia spp., oil palm pests 5637	9181
sources 8589	Cephalophora aromatica, essential oil,	rose diseases, annual report, USA 8834
toxicity, nitrogen nutrition 8589	content 7983	tea diseases 6459
nitrogen	Cephalosporium aphidicola, fungal parasite,	C. viticola, pruning and training, grapevine
sources minor elements 8589	aphids, cucumber and gherkin 5956 C. diospyri, incidence, hurricane damage,	C. vitis, grapevine diseases 5859
minor elements toxicity 8589	persimmon diseases 4827	Cercosporella persicae, peach diseases,
Celery pests	C. sacchari, water relations, sugar cane	annual report, USA 4945
nematodes 2144	diseases 7244	Cereus grandiflorus, flower, opening-closing
Paratylenchus spp., soil treatment 8811	Cephalotaxus spp.	rhythms 6201
Psila rosae, annual report, German	alkaloids 4761	Cerotoma ruficornis, vectors, rugose mosaio
Federal Republic 8579	propagation, cuttings, annual report,	bean (Phaseolus) pests 6845
Celery seed sorting, air flow 4373	Netherlands 4604	Ceuthorrhynchus assimilis, brassicas, pests,
sowing 4373	Grastium spp. ground cover plants 710	annual report, German Federal Republi 8579
dates 5377	weed control 710	Chaenomeles spp.
early harvesting 3822	Ceratitis capitata	seed
depth 5377	aerial spraying, coffee pests 5623	germination, seed, size 3001
direct 5377	apricot pests 63	size, seedling growth 3001
peat 7606	coffee pests 397	seedling, growth, seed, size 3001
treatment, growth substances, N°- benzyladenine 1309	parasites 5654	Chamaecyparis spp.
ociizyiaaciiiio 1007	peach pests 8459	annual report, Netherlands 6962

Subject Index		<u> </u>
Chamaecyparis spp. contd.	Cherry contd.	Cherry contd.
Phytophthora cinnamoni, annual report,	breeding and selection contd. annual report	packing <i>contd</i> . cooling 70, 3450
Netherlands 6961	Sweden 6508	damage 7307
P. spp., varietal resistance 1387	USA 4945	EEC standards 1810
dormancy, phosphorus, absorption 3909 growing	disease resistance, <i>Pseudomonas</i> spp., annual report, UK 3346	planting high density 995
in containers, media 4689	frost resistance 8430	Switzerland 904
peat, nutrition, nitrogen 8941	Prunus spp. 64	survey, Switzerland 904
nutrition nitrogen	cold, protection, forest belts 4186 cover crops, grass-lucerne, disorder	pollen, germination, morphology 8330 pollination 3448
container grown 267	incidence, chlorosis 8435	pollinating varieties 2628–2629
container-grown plants 267	defoliation	processing 996
phosphorus, absorption, dormancy 3909 propagation	chemical 5716, 6510–6511 growth substances 6511	brining 3449 harvesting, time of 3449
cuttings 6213	dormancy	pruning and training 5762
media 8845 annual report, Netherlands 1314	breaking, temperature 907 winter hardiness, water relations 6521	review 7428 wound healing 8433
mist 5462	drought 8285	regeneration, pruning 5762
under plastic 5462	economics, Hungary 6614	ringing, fruit, drop 8444
rooting capacity, growth substances, endogenous 3910	enzyme activity, fruit abscission layer 7431	stomata, water absorption, fruit, cracking 3445
treatment, growth substances 3910,	frost	storage
5462 Chamaedorea spp.	damaged plants, pruning and training 2622	controlled atmosphere hypobaric 7326
acaricides, injury 7024	injury	hypobaric system 1705
pests, mites, control 7024	bud developent 1709	fruit composition 7326
Chamomile essential oil	flower bud 4235 recovery 5699	temperature 5821 symposium 4232
composition 3050	root 2554, 2622, 5699	temperature
light, coloured 3081 content 2352	shoot 6617 ice formation 5019	bud, development 1709
nitrogen nutrition 3054	protection, flowering date, growth	dormancy, breaking 907 tissue culture
determination 6285	substances 8432	cambium, growth inhibition, phenolic
medicinal properties 4770 flowering	resistance ascorbic acid, content 2627	compounds 8442 embryo
date	rootstock-scion relationships 2622	media 7432
nitrogen nutrition 3972 phosphorus nutrition 3972	varieties, USSR 8430 fungicides	propagation 8431
growth substances 3054	fruit, ripening, benomyl 2632	temperature 7427 transpiration
harvesting, mechanical, planting, spacing	injury	anti-transpirants
planting, spacing, harvesting, mechanical	bordeaux 6612 triforine 8475	fruit composition 2630
8030	residues, determination, binapacryl	size 2630
weed control 2356 Chamomile flower, drying quality, growth	7324 grading, EEC standards 1810	transport 3450 damage 7307
substances 3083	growing 4231	in water 1718
Chamomile growth substances flower, drying quality, MH 3083	Crimea 2617 Italy 998	water relations, dormancy 6521 weed control 2562, 7316
flowering	N. America 996	as windbreaks 4294
GA 3054 IAA 3054	North America 997 Switzerland 995	winter hardiness 5020
NAA 3054	growth-yield relationships 8441	dormancy 6521 leaf removal 6521
Chamomile nutrition	harvesting 996, 3450, 4231	flower bud initiation 8443
calcium, essential oil, content 3054 nitrogen 3972	fruit, loosening, growth substances 7433	nitrogen nutrition 6617 wound healing 8433
essential oil, content 3054	mechanical 1005	yield, estimation, statistical methods
phosphorus 3972 potassium 3972	equipment 457 fruit	4233 yield-growth relationships 8441
Chamomile seed, sowing, spacing 3082	injury, shakers 2633	Cherry diseases
Chamomile varieties essential oil, content 2352	loosening 500 ascorbic acid 8445	Alternaria spp. 5022 Amasya disease virus 1808
Hungary 1679	growth substances 501, 8445	Blumeriella jaapii 7429, 8439
Charcoal, media constituent, physical	ethephon 2633	control 8305
properties 7291 Cheimatobia brumata	Munckhof hand-operated vibrator 4241	Botrytis spp. 5022 chlorotic-necrotic ringspot, grafting,
apple pests, annual report, German	shakers, fruit injury 2633	union, development 8437
Federal Republic 6506 apricot pests 63	time of, processing 3449 heat treatment, fungus control, fruit	chlorotic ringspot grafting, union, development 8437
Chelidonium majus, alkaloids, content 2343	6619	yield reduction 8436
Chelonus starki, biological control of, Aegeria myopaeformis 3409	herbicides injury, terbacil 3510	chlorotic ringspot virus control, heat treatment 1809
Chenopodium spp.	tolerance 3510	incidence, rootstocks 999
as weeds artichoke, globe 3633	high density planting, Switzerland, statistics 8324	Clasterosporium carpophilum aerial spraying 8438
asparagus 2827	hybrids 3442	varietal resistance 8438
weeds, bean (Phaseolus) 2017	disease resistance, <i>Sclerotinia</i> spp. 6615	Coccomyces spp., varietal resistance 4237
as weeds, tomato 6069 Cherimoya, breeding and selection, annual	insecticides	Cylindrosporium padi 498
report, Tunisia 3981	injury, dichlorvos 2625	enation disease virus 497
Cherimoya fruit anatomy 2436	residues determination	green ring mottle, yield reduction 843 leaf roll, yield reduction 8436
morphology 2436	bromophos 4238	Monilinia spp. 5022
Cherry annual report	iodofenphos 4238 plant, determination 3330	necrotic ringspot 4948 detection 4236
Belgium 2517, 6503	light	grafting, union, development 8437
Canada 2515, 8314 German Federal Republic 6504 6506	fruit composition 5761	yield reduction 8436
German Federal Republic 6504, 6506, 7309–7310	size 5761	necrotic ringspot virus control, heat treatment 1809
Netherlands 23	mulching, sawdust 4191	incidence, rootstocks 999
UK 8318 USA 24, 3348, 8319	mutants, spur types 1806 orchard renewal, frameworking 4157	Pfeffinger disease 4948 Phomopsis mali 1755
breeding and selection 4231, 8430	packing 3450	P. spp., infection process 7449

970		Horneuman Hosnacis 1775 von
Cherry diseases contd.	Cherry fruit contd.	Cherry propagation contd.
prune dwarf, detection 4236	ripening contd.	budding 5762
Prunus ringspot, pollen-borne 7475	growth substances	cuttings 1807
Prunus stem pitting virus, detection, root	aminozide 2632	root, treatment, growth substances, IE
chip inoculation 512	benzyladenine 1004	8323
Pseudomonas spp., rootstock resistance	GA 1004	shoot
5018	kinetin 1004	age 4178
raspberry ringspot virus, control, heat	oil treatment 2632	part 4178
treatment 1809	time, flowering date 3446	source plants, treatment, growth
Rhizopus spp. 5022	set 3448	substances 1809
Sclerotinia fructicola 8475	Size	treatment growth substances 1809, 4178
heat treatment 6619	anti-transpirants 2630 light 5761	IAA 4513
post-harvest dips 6619, 7481	stone	NAA 4513
S. fructigena, aerial spraying 8438	shape 2620	embryo, tissue culture 8431
Sclerotinia laxa 2613–2614, 2624	size 2620	grafting 5762
control 6612	sugars	union, development, virus diseases
varietal resistance 6618	content	999, 8437
S. spp., varietal resistance 6615	growth substances 1002	nursery stock, defoliation 5716
Stecklenberger disease 4948	benzyladenine 1004	Cherry roootstocks, F12/1 495
stem pitting virus 1823 Poland 67	GA 1004	Cherry rootstocks
strawberry ringspot, yield reduction 8436	kinetin 1004	comparative trials
virus	wax, structure 2618	cherry varieties 66 Mazzard 66
control 7320	Cherry growth substances endogenous	Prunus spp. 4234
-tested plants	fruit 5761	seedling 4234
annual report, German Federal	seed 6620	disease resistance, <i>Pseudomonas</i> spp.
Republic 6505	ethylene, production, ethephon 2631	5018
EMLA scheme 2528	flowering, date, ethephon 8432	propagation, cuttings 4234
Special Stock Certification Scheme	fruit	Prunus fruticosa
7320	abscission, ethephon 2631	cold resistance 5018
German Democratic Republic 7321	colour, ethephon 500	propagation 5018
Cherry disorders	drop	Prunus spp. 495, 4234
apoplexy, fungus relationships,	anatomy, GA 68	virus incidence 999
Phytophthora spp. 454	GA 8444	-scion relationships
chlorosis 8435	kinetin 8444	flower bud, initiation 2530 frost resistance 2622
iron deficiency 496	loosening cycloheximide 8445	virus-tested plants, EMLA scheme 732
leaf anatomy 8429 Cherry flower	2,4-D 8445	Cherry soil
biology 3448	ethephon 500–501, 2633, 5801,	fumigation, soil sickness, chloropicrin
bud	7433, 8445	8381
ascorbic acid, content, frost, resistance	GA 8445	salinity, varietal behaviour 8434
2627	morphactins 8445	sickness, fumigation 8381
proteins, distribution 2627	ripening	temperatures, frost injury 2554
bud initiation	aminozide 2632	Cherry varieties 2621
time	benzyladenine 1004	Alma 5759
plant nutrition 2530	GA 1004	annual report, USA 3349
rootstocks 2530	kinetin 1004	ascorbic acid, content, Yugoslavia 345
soil management 2530	sugars	Barbara 5759
winter hardiness 8443	content 2,4-D 1002	Bianca 5759 Canada 1724
morphology, growth correlations 4164 Cherry fruit	GA 1002	Compact Lambert 1724
abscission layer	kinetin 1002	comparative studies, USSR 8430
anatomy 501	injury, ethephon 7433	comparative trials 5016
composition 499	leaf, removal, ethephon 6511	annual report, Cyprus 3345
enzyme activity 7431	metabolism, IAA 8442	Czechoslovakia 3438, 3441
histochemistry 2631	responses	disease resistance
histology 501	aminozide 3360	Clasterosporium carpophilum 8438
ascorbic acid 3451	chlormequat 8329	Coccomyces spp. 4237
bruising 5022	Cherry leaf	Sclerotinia laxa 6618
colour, growth substances, ethephon 500	anatomy, chlorosis 8429	S. spp. 6615
composition anti-transpirants 2630	cell sap, concentration, seasonal variations 916	disorder incidence, chlorosis 8435 Drogana Zheltaya 2617
calcium 69	potassium, content, iron nutrition 496	evaluation 3440
light 5761	removal	flowering, date 3446
magnesium 69	chemical 6510-6511	frost resistance 2623
storage, controlled atmosphere,	fruit drop 8444	fruit
hypobaric 7326	Cherry nutrition	cracking 3444
coumarins, content 8446	copper 496	flavour 2623
cracking 3443-3445	general, leaf analysis, symposium 2489	ripening, time 3446
anti-transpirants 4239	iron 496	ripening time 1003
cuticle, structure 2618	chlorosis 8429	identification 2619
development 69 growth substances, endogenous 6620	nitrogen, winter hardiness 6617 Cherry pests	Köröser Weichsel, pollination 2629 Kosmichna 5017
drop 69	Archips spp. 2580	Lambert, spur types 1806
growth substances 8444	A. xylosteana, parasites, Trichogramma	Magda 5760
anatomy 68	spp. 2580	Marasca 3447
leaf removal 8444	birds	Merton Bigarreau 5759
ringing 8444	protection against 7430	Merton Bounty 5759
ethylene, production, growth substances,	economics 5021	Merton Favourite 5759
ethephon 2631	mites, biological control 29	Merton Heart 5759
firmness	Myzus cerasi, aerial spraying 8438	Merton Premier 5759
irradiation, ionizing, post-harvest 7434	Quadraspidiotus perniciosus, control	pollen compatibility 2628
post-harvest dips 7434	7322 Phagalatic caraci 1000	pollination, annual report, German
storage, temperature 7434 irradiation, ionizing, post-harvest 7434	Rhagoletis cerasi 1000	Federal Republic 8315
loosening	aerial spraying 8438 control 5763	Rebekka 5759 register, USA 3356
ascorbic acid 8445	baits 1000	Salmo 1724
growth substances 7433, 8445	R. fausta 1001	Sam 5759
ethephon 500–501, 2633, 5801	R. indifferens 1001	soil salinity 8434
nitrogen, content, dropped fruit 8444	Scolytus mali 8440	Stella 1724
ripening 499	Cherry propagation	synonyms 3438
fungicide treatment, benomyl 2632	air-layering 1015	Syurpriz 5017

odojeci inden		71
Cherry varieties contd.	Chicory nutrition	Chlorophyll contd.
Tunisia 4155 USSR 2521, 2623, 3439	nitrogen 5176 phosphorous 5176	biosynthesis
Valeska 5759	Chicory pests, Meloidogyne spp. 1152	bean (<i>Phaseolus</i>) 185, 7708 bean (<i>Phaseolus</i>) seedling 186
Van 5759	Chicory propagation, leaf, tissue culture	carrot root 259
virus-tested clones, EMLA scheme 2528,	3638	ethylene, cucumber and gherkin 2779
7320 Chervil, weed control 6777	Chicory root, composition, fructo- oligosaccharides 133	growth substances CCC, lettuce 137
Chervil seed, annual report, Belgium 4363	Chicory seed	orchids 7029
Chestnut (Aesculus)	sowing	inhibition, actinomycin D, bean
light, intensity, photosynthesis 7325	dates 5886	(Phaseolus) 5983
photosynthesis 7325 Chestnut (Aesculus) leaf, temperature,	drills, annual report, Netherlands 1132 Chicory varieties, forcing 7621	far red, bean (<i>Phaseolus</i>) 7715
photosynthesis 7325	Chilling requirements	red
Chestnut (Castanea)	flowering, olive 9113	bean (Phaseolus) 7715
annual report, USA 25 fungicides, translocation, oxycarboxin,	tung, annual report, USA 2433	pea 6865 mustard 3021
growth substances 5707	Chilo indicus, incidence, sugar cane pests	mustard seedling 186
growing	853 C. infuscatellus	phytochrome, bean (Phaseolus) 7715
Italy 5023 Japan 5023	incidence, sugar cane pests 853	potassium, lettuce 137 storage, tomato 8803
insecticides 3318	parasites, sugar cane pests 1641	content
organic acids, content, seasonal variations	C. spp., Mexico, sugar cane pests 6440	chloroplast, growth substances,
4163	Chilocorus bipustulatus, predator on, scale insects, citrus pests 1490	cucumber and gherkin 2005
tissue culture, callus, grafting compatibility studies 3567	C. cacti, predator on, Aonidiella aurantii,	cold treatment, sugar cane 8247 coloured light, orange 7149
Chestnut (Castanea) diseases	citrus 9096	diseased plants
Cryptodiaporthe castanea 1006	C. nigritus, predator on, Aulacaspis	proliferation, apple 7377
Diplodina castaneae 1006 Stereum rugosum 1006	tegalensis, sugar cane 9256 Chilotraea auricilia, incidence, sugar cane	sugar cane 8247 yellow vein mosaic, okra 6887
Trametes hirsutus 1006	pests 851, 4892	fruiting relationships, apple 6573
Chestnut (Castanea) flower	Chimeras	growth substances
development 71 initiation 71	colchicine induced, camellia 315 graft, camellia 1385	bean (<i>Phaseolus</i>) 2799 chlormequat, <i>Vinca</i> spp. 1442
Chestnut (Castanea) growth substances,	pigments, content, privet 8963	gloxinia 6176
fungicides, translocation, aminozide,	Chinese gooseberry	grapevine 1125
chlormequat 5707	fruit, ascorbic acid, content 1047	radish 7668
Chestnut (Castanea) nutrition, NPK, leaf analysis 2634	growing France 4301	iron, nutrition, grapevine 3580
Chestnut (Castanea) pests, Dryocosmus	South Africa 4300	apple 6563
kuriphilus, resistance, breeding and	temperate regions 1047	orange 8075
selection 8447 Chestnut (Castanea) varieties, pest	harvesting, time of, fruit ripening 4303 insecticides, injury, oil 5080	tomato 7789 <i>Vinca</i> spp. 1442
resistance, <i>Dryocosmus kuriphilus</i> 8447	storage, fruit quality 4303	leaf
Chicory	Chinese gooseberry fruit	fluorine toxicity, coleus 8922
annual report Belgium 1131, 4363, 5148, 5906, 8578	colour, storage 4303 composition 102	herbicides, tomato 6926 light, intensity, cucumber and gherk
Netherlands 8581	storage 4303	4459
UK 6774	firmness, storage 4303	light intensity, peach, pear 3491
blanching 5176 breeding and selection	ripening, storage 4303 Chinese gooseberry growth substances,	osmotic pressure, bean (<i>Phaseolus</i>) 1217
annual report, Italy 6771	residues, SADH 480	position, grapevine 5864
for forcing 5907	Chinese gooseberry pests	soil salinity, tomato 6926
cell wall, composition, growth substances 7623	Hemiberlesia rapax 5080	thickness, apple 4991
enzyme activity 2750	Meloidogyne hapla 4302 Chinese gooseberry varieties, register, USA	light, intensity, mandarin and tangerin 6352
enzymes, biosynthesis, tissue culture	4156	measurement 4917
7624	Chionaspis citri, citrus pests, annual report,	spectrophotometry 6487 mutants, cucumber and gherkin 8656
forcing economics 3639	USA 8051 Chiranthodendron pentadactylon, flower,	nitrogen nutrition
irrigation, capillary 1151	composition 781	mandarin and tangerine 6352
methods compared 3639	Chive pests, Agromyza spp., control 8746	Vinca spp. 1442
soilless culture 5177 fungicides	Chlorine absorption, growth substances, kinetin,	ozone injury, bean (<i>Phaseolus</i>) 2788 phytochrome relationships 4937
residues	bean (Phaseolus) 2027	plant development, Sternbergia lutea
determination	content	6190
benomyl 7609 thiophanate 7610	leaf potassium nutrition, sources, chloride	plant nutrition capsicum 6892
growing	3199	citrus 9100
review 132	wind damage	lemon 3112
South Africa, economics 5640 tunnels 5176	citrus 1474 orange 1474	strawberry 5815 tomato 254, 6077
harvesting	plant, air pollution, annual report,	rootstock effect, pear 1032
time of	German Federal Republic 6481	seasonal variations, apple 4991
planting, spacing, time 5886	deficiency, sugar cane 8218	seed, pea 3752
lead, determination, atomic absorption	determination, spectrophotometric method 6486	seed treatment, gamma rays, onion 8738
spectrophotometry 6784	leaf analysis	seedling
mulching, plastic 5176	banana 9131	growth substances, lettuce 6789
soilless culture, forcing 5177 tissue culture	citrus 1484 requirements, varietal differences, sugar	pea 3752 seed treatment, raspberry 5807
annual report, UK 1938	cane 8218	soil moisture
leaf, propagation 3638	toxicity	mint 6269
root callus, bud formation 8602 weed control	photographic surveys, grapefruit, annual report, USA 790–791	Salvia spp. 6269 soil pH, Schizandra chinensis 8968
annual report, German Federal	plant tolerance	temperature
Republic 8579	irrigation water, vegetables,	mandarin and tangerine 6352
review 5182	ornamental plants, fruit trees and	tomato 5990
Chicory diseases Fusarium oxysporum 7622	plants 5163 pea 3734	tissue culture, <i>Ruta</i> spp. 9053 water relations, tomato 254
Phoma exigua 8601	soil, peach 509	degradation
Chicory growth substances, cell wall,	translocation, tomato 2126	fruit, ripening, apple 52
composition, 2,4-D 7623	Chlorophyll 1673 (see also Pigments)	leaf, senescence, apple 7400

Chlorophyll contd.	Chrysanthemum contd.	Chrysantnemum conta.
degradation contd. pests, Eutetranychus buxi, aspidistra	air pollution, injury, peroxyacetyl nitrate 2925	fertilizers, application 2185
741	annual report	mats ·
virus diseases, vegetables 1259	Austria 265	paper 8859
disease relationships, bean (Phaseolus)	Belgium 5386	plastic 8859
174	Canada 8836	needs, seasonal, root growth 2186
metabolism	Netherlands 704, 6126–6127	light
bean (Phaseolus) 7714	UK 4605, 4622	artificial 1334
enzyme activity, spinach 4396	USA 1441, 6129, 8834	equipment 8841
flower, chrysanthemum 273	breeding and selection	flowering 8841 duration
growth substances cucumber 151	annual report, Canada 2910	growth studies 7859
kale 151	pollen compatibility 8858	respiration 7860
mustard 3021	bromine contents, soil, fumigation, methyl bromide 5394	intensity
photoperiodism, apple 50	calcium, content, shoot, root temperature	annual report, USA 1315
tissue culture, Ruta spp. 9053	8863	growth 272
Chlorophytum spp.	carbohydrates, content, leaf, disorders	growth studies 7859 respiration 7860
growth substances, endogenous, translocation 706	6972	supplementary 5404
root, cation exchange capacity 4144	carbon dioxide	equipment 8841
Chloroplast	supplementary 272	flowering 8841
activity	planting, spacing 6143	flowering date 3842
fungicides, bean (Vicia) 8713	copper, content, shoot, root temperature	magnesium, content, shoot, root
leaf, size, capsicum 6044	8863	temperature 8863
tissue culture bean (<i>Vicia</i>) 128	dwarfing growth substances 7861	manganese, content, shoot, root temperature 8863
spinach 128	aminozide 2031	nematicides, injury, varietal differences,
damage, frost, injury, light, cucumber and	butylammonium bromides 2031	Mocap 6977
gherkin 2003	chlormequat 2031	nitrogen, content, shoot, root temperature
development	ethylene	8863
bean (Phaseolus) 5986, 7710	concentration, flooding 3837	phosphorus, content, shoot, root
growth substances endogenous, citrus 2399	flooding, ethylene, concentration 3837	temperature 8863 photoperiodism 5404
pumpkin 2780	flowering	flower, development 6148
herbicides, radish 5202	date	flower bud
light, pea 6865	growth substances 1336, 8864	initiation 7858
Zantedeschia aethiopica 8911	nutrition 718, 718	plant age 7857
enzyme activity, pea 8725	growth substances 2926, 2928	flowering 3296 physiology, annual report, USA 3835
enzymes, pea 2819, 3742 metabolism, bean (<i>Phaseolus</i>) leaf 184	light artificial 8841	planting, spacing 6143
number	supplementary 8841	pollination, compatibility, genetics 8858
light	photoperiodism 6148	potassium, content, shoot, root
apple 8337	fungicides	temperature 8863
spinach 4394	application, methods compared,	potting composts, peat-polystyrene
photosynthesis, brassicas 8628	systemic, annual report, German Federal Reupublic 6959	mixtures 4624 report, USA 6130
proteins 4394	injury, chlorothalonil 6973	respiration
biosynthesis, bean (Vicia) 2045	insect control, benomyl 6973	light duration 7860
content, zinc deficiency, tomato 4564	mite control, benomyl 6973	light intensity 7860
determination, antirrhinum 5411	plant	sugars, content, leaf, disorders 6972
saponins, content, pea 7743	height 6146	sulphur dioxide, injury 6132
light, apple 8337	Dexon 6146 ethoxy trichloromethylthiadiazole	temperature, growth 272 tissue culture
temperature, spinach 4394	6146	callus, media 2927
starch, content, temperature, sugar cane	growing	meristem, annual report, Netherlands
4088	under cloth-shaded structures 8860	6961
sterols, content, bean (<i>Phaseolus</i>) 2034	conifer bark humus 47855	shoot-tip 1331
structure herbicides	under glass 7855 artificial illumination 877	transport, vacuum cooling 2164
aminotriazole, sweet basil 1409	for cut flowers 7862	water potential, plant, measurement 6147
radish 5202	in greenhouses	weed control 6144, 8852
virus infection, sweet basil 1409	glass 8841	annual report, New Zealand 5391
tetraploid plants, spinach 125	plastic 8841	zinc, content, shoot, root temperature
volume variations, measurement, pea 212	transport, conveyor belt 6965	8863
Choanephora cucurbitarum bean (Phaseolus) diseases 5249	media, coal ash 8857 peat 7855	Chrysanthemum diseases Erwinia carotovora 3915
pumpkin diseases 4455	nutrition 6145	E. chrysanthemi 4625
Chondrilla spp., as weeds, citrus 6338	minor elements 4382	flower-distortion virus 271
Chorizococcus lounsburyi, virus vectors,	under plastic, annual report, UK 4606	Fusarium oxysporum
Hippeastrum-mosaic, amaryllis, annual	as pot plants, production 5390	f. chrysanthemi, varietal resistance
report, Netherlands 6961	in pots 5404	f trachainhilum variatal registance
Chortophila spp., radish pests, annual report, German Federal Republic 7597	irrigation, mats 8859 for production throughout the year	f. tracheiphilum, varietal resistance 8862
Chromosome numbers	2183, 5404	F. spp., varietal resistance 8862
atlas, vegetables 5158	Netherlands 7853	Mycosphaerella ligulicola
citrus 7123	straw bales 1142, 6143	control 6973
medicinal plants 1319	growth studies	environmental factors 4626–4627
ornamental plants 1318–1319 Chromosomes, structure, tulip 8901	light duration 7859 light intensity 7859	forecasting 1333
Chrysalidocarpus lutescens, seed,	heat treatment 1690	Oidium chrysanthemi 6229 Puccinia chrysanthemi, varietal resistance
germination 2415	herbicides	5405
Chrysanthemum	injury, nitralin 6144	Puccinia horiana 3319, 4628
acaricides	responses 8852	stunt virus 271
injury, demeton, monocrotophos 6976	insecticides	tomato aspermy
pest resistance diazinon 6974	fungus control, Mycosphaerella	heat treatment 2190
ethion 6974	ligulicola, azinphos methyl 6973 injury	shoot-tip culture 2190 vein mottle
malathion 6974	demeton, monocrotophos 6976	heat treatment 2190
naled 6974	dichlorvos 4629	shoot-tip culture 2190
parathion ethyl 6974	nicotine 4629	Verticillium dahliae 3325
tolerance, methiocarb, annual report,	iron, content, shoot, root temperature	virus B
German Federal Republic 8837	8863	heat treatment 2190

Chrysanthemum diseases contd.	Chrysanthemum growth substances contd.	Chrysanthemum propagation
virus B contd.	flowering contd.	cuttings
shoot-tip culture 2190	date contd.	light 3842
Chrysanthemum disorders	Phosfon 2926	media, annual report, Netherlands
excess photosynthate syndrome	GA 2928	1314 treatment
carbohydrates, content 6972 varietal resistance 6972	flowering time, ethephon 1335 interaction, applied, morphactins, and	gamma rays 6970
petal necrosis 8861	endogenous 8864	growth substances 6971
Chrysanthemum flower	plant	ethephon 4623
bud development, growth substances	composition	IBA 4623
2928	aminozide 2031	shoot-tip culture 2184
bud initiation	butylammonium bromides 2031	virus-free plants 2190
photoperiodism 7858	chlormequat 2031	Chrysanthemum root, growth, seasonal
plant age 7857	retardants	variations 2186
colour, pigments, metabolism 273 composition, pigments 273	morphactins 8864	Chrysanthemum soil composts compared 1332
cut	Pydanon, annual report, German Federal Republic 7843	fumigation, methyl bromide, plant
harvesting in bud 8866	review 7846	composition, bromine 5394
life, nutrition 718	translocation	steaming
opening	aminozide 4630	frequency, ammonium toxicity 1325
treatment 4631	heteroauxin 1320	plant, height 6146
growth substances, Aadural-AK	Chrysanthemum maximum	temperature, shoot composition 8863
719	flower	Chrysanthemum varieties
8-hydroxyquinoline citrate 8866 pest control, post-harvest treatment	cut preservatives 6979	AYR production 5404 disease resistance
6976	vase life 6979	Fusarium spp. 8862
preservatives	Chrysanthemum nutritiion, fertilizers,	Puccinia chrysanthemi 5405
disorder incidence 6972	application, irrigation 2185	disorder incidence, excess photosynthate
vase life 4611	Chrysanthemum nutrition 270	syndrome 6972
production 7862	boron, deficiency 8861	Fandango 5404
development	calcium	greenhouse 7862
anthocyanin, content, seasonal	absorption, peat pH 6145	Heyday 5404
variations 8865 photoperiodism 6148	peat, pH, nutrients absorption 6145 fertilizers, slow-release 1332	nematicide injury, Mocap 6977 Polaris 5404
sugars, content, seasonal variations	magnesium	Pollyanne 5404
8865	absorption, peat pH 6145	Chrysomphalus aonidum
harvesting in bud 4631	deficiency 1325	biological control
pigments, annual report, UK 3832	manganese, toxicity 1325	avocado pests 3983
quality, nutrition 718	minor elements	citrus pests 1491
Chrysanthemum flowering	annual report, Netherlands 6962	citrus pests 4004
date, light 3842 light, artificial, report, Australia 3831	availability, nitrogen nutrition 8589 deficiencies 1325	C. dictyospermi, parasites, Aphytis melinus, citrus pests 1492
Chrysanthemum frutescens, growing, as a	sources 8589	C. ficus, orange pests 7147
pot plant 7854	toxicity, nitrogen nutrition 8589	Chrysopa carnea, predator on, Panonychus
Chrysanthemum growth substances	molybdenum, deficiency, growing in peat	ulmi, apple 4213
absorption, leaf, aminozide 4630	4382	C. nigricornis, predator on, Panonychus
application, adjuvants, oil 6978	nitrogen 1325, 2187	ulmi, apple 4213
branching	absorption, peat pH 6145	C. rufilabris, predator on, Panonychus ulmi
BA 1335 ethephon 1335	ammonium toxicity 2189 flower	apple 4213 C. spp., predators on, Macrosiphum pisi
morphactins 8864	cut, life 718	1232
PBA 1335	quality 718	Chrysophyllum cainito, fruit, aroma 7171
cuttings, rooting, source plant, treatment,	flowering, date 718	Cichorium spp., classification 4401
BA 1335	leaf analysis 7856	Cineraria
dwarfing	sources	annual report, Austria 265
aminozide 2031, 2926, 7861	minor elements 8589	growing, Finland 8843
ancymidol 1336, 7861 BA 1335	minor elements toxicity 8589 water requirements 718	temperature, seedling production 8843 Cineraria diseases
butylammonium bromides 2031	NPK, plant analysis 2188	Coleosporium tussilaginis 2216
chlormequat 2031, 2926	phosphorus 2187	Puccinia lagenophorae 2216
EL 558 7861	absorption	Cineraria seed, germination, temperature
MH 2926	calcium deficiency, chrysanthemum	8843
Phosfon 2926	1332	Cinnamomum cassia, essential oil,
phosfon 7861	peat pH 6145 calcium deficiency 1332	composition 2325
flower 2191	calcium deficiency 1332 leaf analysis 7856	Cinnamon alkaloids, determination 3017
growth substances application 8864	potassium 2187	bibliography 8974
leaf 2191	absorption, peat pH 6145	essential oil
shoot 2191	flower	composition 3015
flower	cut, life 718	determination 7066
cut, opening, Aadural-AK 719	quality 718	Circulifer tenellus, virus vectors, curly top,
number 2026	flowering, date 718	tomato pests 2871
aminozide 2926	leaf analysis 7856 Chrysanthemum pests	Cirsium spp., as weeds, grapevine 1903, 5840
chlormequat 2926 GA 2926	Aphelenchoides ritzemabosi 3841	Cissampelos pareira
MH 2926	Liriomyza munda, control 6973	alcohols 8012
size	mites, control 6973	alkaloids 7104, 8012
GA 2926	Myzus persicae	glycosides 8012
MH 2926	control 6973, 6975	Cistus spp., growing, UK 1400
flower bud	cut flowers 6976	Citrange
development BA 2928	resistance 1697 nematodes, control 6977	as a rootstock disease resistance, grapefruit 9092
GA 2928	Tetranychus telarius	grapefruit 6332
IAA 2928	acaricides, resistance 6974	heat resistance 7141
flowering	control 6973, 6975	orange 795, 5547
BA 2928	cut flowers 6976	Citrange diseases, collar rot, cause unknown
date	thrips, control 6973	362
aminozide 2926	Chrysanthemum plant	Citrange seed
ancymidol 1336	composition	treatment
chlormequat 2926 GA 2926	growth substances aminozide 2031	growth substances, GA 1468 stratification 1468
MH 2926	butylammonium bromides 2031	Citron
morphactins 8864	chlormequat 2031	enzyme activity, fruit, ripening 8096

Citron contd.	Citrus contd.	Citrus diseases contd.
enzymes, fruit 8095	irrigation contd.	Pythium aphanidermatum 2392
respiration, fruit, maturation 8094	soil, compaction 3990	rumple 8074
virus indicator plants, exocortis virus,	sprinkler	seedling yellows-tristeza, heat treatment
citrus 2386	acaricides, application 3135	7141
Citron diseases, Fusarium spp. 5563	fungicides, application 3135	storage diseases, control 9106
Citron fruit	insecticides, application 3135	tatterleaf-citrange stunt, heat treatment
amino acids	medicinal properties 808	7141
metabolism 8095	mycorrhiza, seedling growth 7132	tristeza
fruit maturation 8094	nursery management 6330	heat treatment 7141
ascorbic acid, metabolism, ripening 8096	planting, high density, report, Sri Lanka	histology 5560
maturity	6323	incidence, Ghana 7142
ascorbic acid, metabolism 8096	polyembryony 9079	vectors, Toxoptera citricidus 4798
proteins, metabolism 8094	products and by-products, pulp, animal	
proteins, metabolism, fruit maturation	fodder 8103	tristeza virus 2388
8094	pruning and training, drought damaged	rootstock resistance 4799
Citrulius colocynthis	plants 3988	various, Togo 5599
enzyme activity, seed 9032	research, Italy, new journal 4118	vein enation, heat treatment 7141
as medicinal plants 9032	ringing 4014	virus 4795
Citrumelo, as a rootstock, grapefruit 6332	seedling, growth, mycorrhiza 7132	conference 5557
Citrus	spraying	indicator plants 4795
annual report	equipment .	review 2387
Australia 1466, 4782, 9068, 9074	air blast 3136	South Africa 4795
Cyprus 3980	types compared 3136–3137	virus-tested plants, propagation 794
Italy 8050	storage	Xanthomonas citri 797, 4475
Sabah 9075	buildings, pre-cooling 1503	pest relationships 5562
Tunisia 3981	dips, thiabendazole, determination	varietal resistance 8059
USA 790–791, 2375, 8051	2403	xyloporosis, incidence, Ghana 7142
breeding and selection	diseases, control 9106	yellow vein, heat treatment 7141
	wax coatings	Citrus disorders
frost resistance 3106 interspecific hybridization 5545	fungicides	creasing, irrigation 3990
pest resistance, Tylenchulus	biphenyl, residues 2404	decline, nematode association 8078
semipenetrans 3100	sodium 2-phenylphenate, residues	granulation, review 1509
transcaucasus 1467	2404	oleocellosis 4792
chromosome numbers 7123	temperature, measurement, microclimate	swazi spot 2385
cover crops	5549	various, Togo 5599
grass sward 5551	transport, heat exchange, coefficients	Citrus flower
Pueraria spp. 5551	6364	biology 800
Stylosanthes spp. 5551	weed control 2495, 3108, 3989,	bud initiation, growth substances 368
cuticle, studies, annual report, UK 2380	6338-6339	Citrus fruit
drought, resistance, rootstocks 3988	Neomillspaughia amarginata 6340	abscission 3146
dwarfing	nurseries 1475	ethylene 3146
growth substances 3141	review 5552, 8121	growth substances
MH 2402	weeds, survey 6337	abscisic acid 3146
enzyme activity, fruit abscission layer	wind, damage 1473-1474	auxin 3146
3146	windbreaks, bamboo plants 1473	abscission layer, enzyme activity 3146
frost	Citrus diseases	colour
injury, critical temperatures 4159	Australia 6518	ethylene, treatment 2410
protection	cachexia, heat treatment 7141	growth substances, ethephon 2410
fogging 5550	Cercospora angolensis 4000	composition, oil, peel 371
wind machines 5549	Colletotrichum gloeosporioides 797, 6346	drop 4014
resistance	concave gum, heat treatment 7141	growth substances
breeding and selection 3106	decline 2392	calcium orthophosphate 2402
electrical conductivity 4994	degeneration virus 3126	2,4-D 2402
varieties, USSR 3143	Deuterophoma tracheiphila 9091	GA 2402
fungicides 3320	Diaporthe citri 797, 9093	MH 2402
application, general, adjuvants 5686	irrigation, fungicide application 3135	potassium dihydrogen phosphate
residues	dweet mottle, heat treatment 7141	2402
determination	Elsinoë fawcetti 797	loosening, treatments, review 4012
fruit thiabendazole 7156	exocortis	nucleic acids 4817
phenylphenol 4018	heat treatment 7141	composition 4014
thiabendazole 4806	transmission, tool decontamination	pigment accumulation, growth substances
fruit, thiabendazole 4806, 4813	3125	ethephon 2410
genetics 7123	exocortis virus 363	quality, standards 5578
grading, classification 5578	survey, Japan 2389	thinning
growing	fruit rots	growth substances
Argentina 1707	control 8097	2,4-D 2402
containers, fruiting 869	post-harvest dips 8097	MH 2402
Italy 357	Fûsarium spp. 369	wax coatings 4809
South Africa 5544	greening, incidence, Ghana 7142	Citrus growth substances
transcaucasus 1467	greening virus, Philippines 2390	application, with plant protectants, GA
USSR 9077	Guignardia citricarpa 797	5569
Venezuela 8119	impietratura 3999	dwarfing
halimii, description 3985	infectious variegation, heat treatment	CBBA 3141
harvesting	7141	chlormequat 3141
fruit, loosening 4012	infectious variegation virus 3124	CPA 3141
mechanical, fruit, loosening 4012	Likubin 2388	IT-3233 3141
herbicides 3322	mycoplasma 4795	IT-3456 3141
injury, dichlobenil 3989	review 2387	methyl caprate 3141
toxicity, picloram, dicamba 2495	Mycosphaerella horii 797	MH 2402
hybrids	natsudaidai dwarf virus 3124	naptalam 3141
disease resistance	Phytophthora citrophthora 2392, 4001	potassium azide 3141
Phytophthora citrophthora 6329	hybrid resistance 6329	endogenous 4014
P. parasitica 6329	rootstock resistance 4787	fruit, chloroplasts, development 2399
fruit, ascorbic acid 3158	soil, fumigation 4787	fruit
interspecific 3097, 5545	P. parasitica 2392	abscission
insecticides 3318	hybrid resistance 6329	abscisic acid 3146
intercropping	rootstock resistance 4787	auxin 3146
economics 9082	soil, fumigation 4787, 6348	drop
vegetables 9082	P. spp. 2392	calcium orthophosphate 2402
irrigation	P. spp. 4803	2,4-D 2402
equipment 4039	psorosis 4797	GA 2402
requirements, disorder incidence 3990	psorosis-A, heat treatment 7141	MH 2402

Subject Index		98
Citrus growth substances contd.	Citrus pests contd.	Citrus spp. contd.
fruit contd.	nematodes 446	products and by-products
drop contd.	Panonychus citri 821	peel
potassium dihydrogen phosphate	Phyllocnistis citrella 367	animal fodder 6368
2402 thinning	disease complex 5562 Phyllocoptruta oleivora 3137	essential oil, content 6368 hesperidin, content 6368
2,4-D 2402	Planococcus citri 4003	pectins, content 6368
MH 2402	Pseudococcus comstocki, population	sugars, content, fruit 7157
Citrus jambhiri	survey, sex traps 5565	tissue culture
nutrition, iron 1480	Radopholus similis 2394	embryogenesis 8087
root	review, Bolivia 5671	ovary 8087 Citrus varieties
hydrogen sulphide 9081	Rotylenchulus reniformis 2394 scales	disease resistance, Xanthomonas citri
waterlogging 9081	biological control 1490, 9096	8059
soil, waterlogging, hydrogen sulphide, root	integrated control 9096	tropics 5546
injury 9081	parasites 7146	Tunisia 4155
C. junos carbohydrates	Scirtothrips aurantii 4003	Citrus wilsonii, as a rootstock, orange 478 Cladosporium carpophilum, control, peach
content	Toxoptera citricidus 4003	diseases 7448
disease resistance 3131	virus vectors, tristeza 4798	C. fulvum
frost resistance 3131	Trioza erytreae 4003	host reactions, tomato diseases 5355
diseases, Deuterophoma tracheiphila,	control 4804 parasites 5566	resistance
resistance 3131 flower, biology 3143	Tylenchulus semipenetrans 2394	tomato diseases 2111, 2859 annual report, Netherlands 6772
frost	control, cultural methods 4002	tomato, annual report, UK 5884
resistance	population studies, decline association	tomato diseases 2875, 4552
carbohydrates, content 3131	8078	varietal resistance, tomato diseases 675,
leaf, composition 3131	rootstock resistance 4787	1280, 3792, 7772
nitrogen, content 3131	soil, fumigation 4787	C. sicophilum, fig diseases . 8450
fruit biology 3143	various	C. spp. Dioscorea spp., diseases 6297
parthenocarpic 3143	biological control 9096 integrated control 9096	seed-borne, spinach diseases 6785
pectins, content 3160	Togo 5599	spore numbers, grapevine diseases 5858
nitrogen	Xiphinema spp., population studies,	vectors, aphids, bean (Vicia) diseases
content disease resistance 3131	decline association 8078	8708 Clarkia spp.
frost resistance 3131	Citrus plant	seed, sowing, peat 7606
as a rootstock	composition, soil oxygen concentration	taxonomy 266
lemon 4788	2383	Clasterosporium carpophilum
mandarin and tangerine 8062	flavonoids, content 808 glycosides, content 808	aerial spraying, cherry diseases 8438
tissue culture, embryo, endosperm tissue 7127	Citrus propagation	apricot diseases 63 stone fruits, diseases, 5699
Citrus leaf	budding 1469, 6330	varietal resistance, cherry diseases 8438
chlorine, content, wind damage 1474	bud wood, certification, India 8058	Clausena anisata, as a rootstock, citrus
iron, content 1480	on mother plant 4789	1470
Citrus macrophylla	embryo, tissue culture 1471	Clematis annual report, Netherlands 4604
as a rootstock citrus 8063	grafting, shoot-tip, virus-tested plants 794	breeding and selection, annual report,
lemon, annual report, Australia 4782	nucellus, tissue culture 1471	Canada 8836
Citrus nutrition 864	seed 6330	Clematis diseases
copper 7140	Citrus rootstocks	Ascochyta clematidina 3929
deficiency symptoms 7140 plant analysis 7140	Clausena anisata 1470 comparative trials	Coniothyrium clematidis 3929 C. clematidis-rectae, annual report,
soil analysis 7140	Israel 9080	Netherlands 6961
general, leaf analysis 5681	root, porosity 3987	Clematis spp.
iron	compatibility 4795	breeding and selection 3928
deficiency 1480	disease resistance, tristeza virus 4799	pollen, viability 3928
sources compared 1480	lime (<i>Citrus</i>), review 3102 Mozambique 2381	seed, treatment, gamma rays 753 seedling, emergence, seed treatment,
manganese, deficiency, calcareous	Poncirus trifoliata 4799, 7125	gamma rays 753
soils 1480	propagation, seed 6330	Cleome hassleriana
magnesium, sources, limestone 3996	Rangpur lime, disease incidence 5558	flower, development 8876
manganese, deficiency, calcareous soils,	rough lemon 4795	growth substances
iron, sources 1480 Citrus pests 1696	-scion relationships drought resistance 3988	endogenous flower
Aceria sheldoni 4003	incompatibility 1470	abscission 8876
ants 4003	seedling	development 8876
Aonidiella aurantii 4003	disease resistance 4787 pest resistance 4787	translocation, IAA 7881 translocation, studies, growth substances
biological control 9096–9097 parasites, Aphytis melinus 1492, 1494	Severinia buxifolia 6331	7881
population studies 799	Citrus soil	C. spinosa, growth substances, endogenous,
Aspidiotus hederae, parasites, Aphytis	fumigation	determination, IAA 7289
melinus 1492	Phytophthora citrophthora, DD 4787	C. viscosa
Australia 6518 Brevipalpus californicus, predators 1489	P. parasitica DD 4787	alkaloids 4731 leaf, morphology 4731
Chrysomphalus aonidum 4004	methyl bromide 6348	saponins 4731
biological control 1491	seedling growth, methyl bromide 7132	seed, morphology 4731
C. dictyospermi, parasites, Aphytis	Tylenchulus semipenetrans, DD 4787	sterols 4731
melinus 1492	micro-organisms, seedling, growth 7132	tannins 4731
Dialeurodes citri 7148 fungal parasites 8081	oxygen concentration, plant composition 2383	Clepsis spectrana, population studies, mechanical harvesting, black currant
Eutetranychus orientalis, predators	pH, limestone, sources compared 3996	pests 1049
1488–1489	Citrus spp.	Clerodendron spp.
Gascardia destructor 6350	amino acids, content, fruit 7157	flower, development, growth substances
Helicotylenchus spp., population studies,	essential oil, content, peel 6368	7953 flowering photoperiodism light intensity
decline association 8078 Helicoverpa armigera 4003	fruit, composition 7157 organic acids, content, fruit 7157	flowering, photoperiodism, light intensity 7953
Lecanium deltae, parasites, Hymenoptera	pests	growing, in pots, annual report,
6351	Diaphorina citri	Netherlands 6127
mealy bugs	alternative hosts 8082	growth substances
biological control 9096 integrated control 9096	population studies 8082 Tylenchulus semipenetrans, resistance	flower development
mites 3324	3100	chlormequat 7953

982		Horticultural Abstracts 1973 Vol. 43
Clerodendron spp. contd.	Coconut contd.	Coconut pests contd.
growth substances contd.	irrigation contd.	Parasa pallida, Ivory Coast 9188
flower contd.	well-point system 4852	P. viridissima, Ivory Coast 9188 Promecotheca cumingi
development contd. GA 7953	oil, production 1568 plant	parasites
shoot	anatomy 388	Achrysocaris promecothecae 8143
growth	morphology 388	Dimmockia javanica 8143
chlormequat 7953	planting	P. papuana 2444
GA 7953	material, raised in plastic bags 1558 seedling, selection 6399	biological control 9158
Climate disease incidence, <i>Peronospora parasitica</i> ,	pollen	Pseudonicraza szentia, biological control 9158
cabbage 8622	collection, fluid-bed dryer 9160	rats
microclimate	production 5615	control, Warfarin blocks 7188
growth studies 8296 orchards, annual report, UK 903	pollination, artificial, seed production 5615	damage 2448
Clivia flower, bud initiation, annual report,	rainfall, yield variations 9148	assessment 1564 Rhynchophorus ferrugineus 1563
Belgium 8835	research, Fiji 3187	R. spp. 2444
Clivia spp.	seedling development 6399	rodents 7170
flowering 2962 pollen tube, structure 2951	production 9149	Scapanes australis 2444
Clove	raising, plastic bags 1558	Segestidea spp., biological control 9158
bibliography 8974	water relations, nut drop 1565	Stephanitis typicus control 9159
essential oil composition 3018, 7965	weed control 7187, 8141 cover crops 9147	vectors, root (wilt) 6402
determination 7066	Eupatorium odorata 8140	various, Togo 5599
growing, Malagasy Republic 3939_	Imperata cylindrica 9147	Xylotrupes spp. 2444
Malagasy Republic, annual report, France	nurseries 9149	Coconut propagation, vegetative, annual
754 research, Malagasy Republic 3939	Coconut diseases cadang-cadang 2447, 3188	report, UK 8139 Coconut root, water, absorption 4052
Cnephasiella incertana, hop pests, annual	review 9154	Coconut seed
report, German Federal Republic 340,	cause uncertain 1561	germination, seedling development 6399
7087 Cool ash ornamentals plant arowing 8857	Ganoderma lucidum 4053 heart rot 6400	production 3187, 6398 pollination 5615
Coal ash, ornamentals plant growing 8857 Coal dust, vegetables growing, nutrition	Helminthosporium incurvatum, nitrogen	Coconut soil
7604	nutrition 9149	cultivation, weed control, sulphur
Cobalt	lethal yellowing 832–833, 1559, 4054,	deficiency 841
amino acids, content, tomato 8772 application	4854 annual report, Jamaica 4851	sterilization, chemicals, virus control 9153
foliar	control, antibiotics 5616	types
disease incidence, grapevine 7568	root (wilt) 6401	disorder incidence 9152
grapevine 7568 fruit	transmission, soil 9153 vectors, <i>Stephanitis typicus</i> 6402	waterlogging 9152 waterlogging, disorder incidence 9152
composition, black currant 8486	root (wilt) disease 1560	Coconut varieties
size, black currant 8486	various, Togo 5599	macapuna hybrids 1555
nitrogen, fixation, pea 2814	wilt 4053	oil, content 1568 Coelaenomenodera elaeidis
rhizosphere, micro-organisms, tomato 8772	Coconut disorders leaf scorch decline, waterlogging 9152	oil palm pests 5638
water relations, melon (cantaloup and	lethal frond-drop 1555	population studies
musk) 2773	various, Togo 5599	coconut pests 4877
Coccinellids predator on	Coconut flower, perianth aestivation 4831 Coconut fruit	oil palm pests 4877 Coffea spp., seed, chlorogenic acids, content
Aphis craccivora, legumes 6846	drop	1585
Macrosiphum pisi 1232	growth substances	Coffee
Coccinia indica, alkaloids 8013	chlorflurenol 1566 ethephon 1566	aerial, spraying, insecticides, <i>Ceratitis</i> capitata 5623
Coccomyces spp., varietal resistance, cherry diseases 4237	Coconut growth substances	amino acids
Coccus viridis, control, coffee pests 9169	fruit	applied 4060
Cochliobolus lunatus, sugar cane diseases	drop	metabolism 4060
4097 Coconut	chlorflurenol 1566 ethephon 1566	annual report Burundi 4031
annual report	Coconut, nut	East Africa 4855
Jamaica 4851	drop, water relations 1565	East African Community 5617
Nigeria 9181 Sarawak 4036	extracts, tissue culture media 6206 milk	Kenya 3191 Nigeria 4035
Sri Lanka 7185	potassium, content, plant nutrient status	Rhodesia 4829
arboricides	4853	Sarawak 4036
cacodylic acid 3189 2,4-D 2 3189	use, tissue culture, embryo, seed age 1605	UK 2449 Zambia 8144
picolinic acid 3189	proteins, content 4941	bibliography 390
sodium arsenate 3189	Coconut nutrition	breeding and selection
breeding and selection 1556–1557, 3187,	chlorine 9151	disease resistance 391
6397 seed, production 8138	general, nut milk analysis 4853 nitrogen	Ivory coast 1569 caffeine
cover crops	disease incidence, Helminthosporium	biosynthesis, seed, fruit 4867
Pueraria javanica	incurvatum 9149	content, seed, fruit 4867
pests, alternative hosts, <i>Contheyla</i> rotunda 9156	nurseries 9149 NPK 1555, 9150	translocation 4863 calcium, content, leaf, phosphorus
weed control 9147	sulphur, leaf analysis 3173	nutrition 4859
economics, India 9150	sulphur deficiency 841	climate 8145
enzyme activity, nut, milk, plant nutrient status 4853	Coconut pests 1696	colloquium 9172
growing	Aceria guerreronis 389 control 9155	cover crops soil, conservation 3161, 5618
Fiji 3187	Brontispa longissima 2444	weed control 1571
Indonesia 9147	Coelaenomenodera elaeidis, population	cuticle, properties, berry, disease resistant
Malagasy Republic 4051 Portuguese East Africa 7186	studies 4877 Contheyla rotunda 1562	7193 dormancy, growth substances, endogenou
growth-palm age relationships 1567	alternative hosts 9156	7196
hybrids 831	control 8142	economics, Brazil 3192
seed, production 5615, 6398 irrigation 9150	Eumossula gracilis, biological control 9158	enzymes, cotyledon, varietal differences 4059
requirements 4052	insects, control, review 1532	epiphytes, fungi, Marasmius scandens
saline and fresh water mixed 4052	Nephantis serinopa 3190, 9157	823
saline water 4052	Oryctes rhinoceros 2444	flowering 7195

Coffee contd.	Coffee diseases	Coffee nutrition contd.
fungicides	Armillaria mellea 4057	copper 2452, 6405
application, methods compared 3206	Ascochyta coffeae 3203	toxicity 393, 6405
injury, mercury compounds 3193	Botrytis cinerea 4860	iron, deficiency 9166
insect control, Ascotis selenaria, fentin	Ceratocystis fimbriata	magnesium
hydroxide 3205 residues, leaf, copper 2451	resistance 391 varietal resistance 4055	deficiency 9166 symptoms 3198
yield increase 836	Cercospora coffeicola 1574, 1576	leaf analysis 1570
ground cover plants, legumes 7190	nitrogen nutrition 9167	manganese
growing	Colletotrichum acutatum 3204	availability 7191
India 8145	Colletotrichum coffeanum 836,	deficiency 9166
as an intercrop	3201–3202, 3204, 8150	toxicity 7191
coconut, annual report, Jamaica	control 4861 fungicides, application, methods 3206	nitrogen 3197
oil palm, annual report, Nigeria	host nutrition, foliar 1579	application, foliar, <i>Colletotrichum</i> coffeanum incidence 1579
9181	India 8148-8149	deficiency 9166
harvesting	resistance, cuticular wax 7193	symptoms 3197-3198
bean, quality 4866	varietal resistance 2450	disease incidence, Cercospora coffeicol
mechanical	C. gloeosporioides 3204	9167
air separator 1587 nets 1587	C. spp. 5620 Corticium koleroga 8150	leaf analysis 1570, 3198 v soil analysis 3195
washing machine 1587	Fomes spp. 4057	potassium imbalance 9167
humidity, relative, disease incidence,	Fusarium solani 8151	sources, transpiration 9171
Colletotrichum spp. 5620	F. spp., seed treatment 3193	NPK 5619
hybrids, identification 7189	Ganoderma spp. 4057	application, with plant protectants
irrigation 3308	Glomerella cingulata 3204	9167
spray, equipment 6408	incidence 1575	phosphorus 4859, 6404
sprinkler 9165 light, intensity, plant composition 1588	Hemileia spp., fungicides, application, methods 3206	deficiency 9166 symptoms 3198
as an ornamental plant, growth	Hemileia vastatrix 396, 836, 1577–1578,	leaf analysis 1570, 3198
substances, annual report, USA 6129	2451, 3316, 4862, 5621, 7194	v soil analysis 3195
phosphorus	biological control 1580	toxicity 4859
absorption 6404	hybrid resistance 1569	potassium 3197
translocation 6404	parasites, Verticillium spp. 7194	deficiency 9166
photoperiodism 4864 planting, high density 7195	varietal resistance 395 Marasmius spp. 823	symptoms 3197–3198 leaf analysis 1570
pollination, compatibility, Malagasy	Pythium spp., seed treatment 3193	nitrogen imbalance 9167
Republic 1586	various, Togo 5599	sources, chloride, leaf chlorine content
processing	Coffee disorders	3199
bean, quality 4866	die-back 6406	sulphur 1573
drying	June drop 8150	deficiency, symptoms 3198
equipment 4865 under plastic 7197	various, Togo 5599 Coffee flower	leaf analysis 1573, 3173 zinc 3197
products and by-products, pulp,	bud development, growth substances,	absorption
composition 7200	endogenous 7196	leaf 394, 3200
pruning and training 392	bud initiation, photoperiodism 4864	sources 7192
shade 8145, 9162	Coffee fruit	spray pH 7192
annual report, Sri Lanka 3171	anatomy, development 4856	deficiency 9166
nutrition, leaf, analysis 1570 pest incidence, <i>Stephanoderes hampei</i>	ascorbic acid, content 8158 caffeine, content 1588	symptoms 3197 Coffee pests 1696
9162	development, caffeine content 4867	Antestiopsis lineaticollis, annual report,
plants, Erythrina lithosperma 9163	ripening	Burundi 4032
weed control 4858	growth substances, ethephon 837	A. spp. 6407
soilless culture, nutritional studies 6405	irrigation 9165	Araecerus fasciculatus, bean storage
species, identification 7189 spraying	sampling, methods 8146 wax, disease resistance, <i>Colletotrichum</i>	8156–8157 Ascotis selenaria 6407
aerial 3206	coffeanum 2450	biological control 1584
equipment, hydraulic sprayer 4058	Coffee growth substances	fungicides, fentin hydroxide 3205
statistical	defoliation, Ethrel 1574	Ceratitis capitata 397
sampling	disease	aerial spraying 5623
bean 8146	expression	Coccus viridis, control 9169
fruit 8146 leaf 8146	2,4-D 1574 NAA 1574	Eupterote spp. 1582 fruit flies 6407
shoot 8146	endogenous, flower bud, development	general, review 7282
storage	7196	Hypothenemus hampei, population
buildings	fruit, ripening, ethephon 837	studies, host orientation 9170
humidity, control, solar energy 2453	Coffee hybrids, Arabusta 1569	insects
ventilation, control, solar energy	Coffee leaf	biological control 5622 control, review 1532
pest incidence, Araecerus fasciculatus	area, copper nutrition 2452 caffeine	Leucoptera meyricki 1583
8156	content	L. spp. 6407
sucker, control 7195	leaf age 1588	Meloidogyne coffeicola 1581
tissue culture, embryo 8155	light intensity 1588	M. exigua 1581
transpiration	composition 202	Brazil 9168
copper nutrition 2452 foliar nutrition 9171	copper nutrition 393 major elements, shade 1570	M. incognita 1581 incidence, Brazil 8152
nitrogen nutrition 9171	flavonoids, content, disease resistance,	Niphadolepis alianta 1583
potassium nutrition 9171	Ceratocystis fimbriata 4055	Parasa spp. 1583
weed control 4056, 4858, 7190, 9164	nitrogen	Pratylenchus brachyurus 1581
cover crops 1571	content	P. coffeae 8153
ground cover plants 7190 review 8120-8121	leaf age 1588	Radopholus similis, alternative hosts 7608
review 8120-8121 Coffee bean	light intensity 1588 phenolic compounds, content, disease	review, Bolivia 5671
composition 7198	resistance, Ceratocystis fimbriata	Stephanoderes hampei, shade 9162
identification, robusta 4062	4055	tortrix moths 1583
nucleic acids, extraction 3208	sampling, methods 8146	various, Togo 5599
oil, content 8159	Coffee nutrition 864, 3196	Xiphinema brevicolle 1581
processing 1589	boron 3197	Xyleborus morstatti, hybrid resistance
quality 7199 Ethiopia 4866	deficiency 9166 symptoms 3197	1569 Xylosandrus morigerus
sampling, methods 8146	calcium	alternative hosts
toxins 7199	deficiency, symptoms 3198	avocado 8154
water, content, determination 4061	leaf analysis 1570, 3198	Salix humboldtiana 8154

984		HOFFICUITUTAL ADSTRACTS 1975 VOI. 4
Coffee plant, composition, copper nutrition	Cold contd.	Colletotrichum contd.
2452	resistance contd.	C. dematium
Coffee propagation	proteins, content, Albizzia spp. 1398	papaw diseases 1610
cuttings 8147, 9161	seed treatment, melon (cantaloup and	pathogenicity
adventitious buds 6403	musk) 7677	apple diseases 8515
Coffee root	studies, strawberry, annual report,	nectarine diseases 8515 strawberry diseases 8515
anatomy 3172	Canada 6668	tomato diseases 8515
cation exchange capacity, determination	testing bean (<i>Phaseolus</i>) 2009	peperomia diseases 6203
composition, copper nutrition 393	holly 3912	f. spinaciae, spinach diseases, annual
systems 6404	responses, rhubarb 7759	report, German Federal Republic
Coffee seed	Cold treatment	7597
anatomy, development 4856	flowering, freesia 7897	symptoms, strawberry diseases 8515
ascorbic acid, content 8158	photosynthesis, sugar cane 8247	varietal resistance, tomato diseases 2107
chlorogenic acids, content 1585	seedling, cauliflower and broccoli 7659	C. destructivum, varietal resistance, tomato
development, caffeine content 4867	Coleophora malivorella, population studies,	diseases 2107
germination 4857	apple pests 956	C. falcatum, planting material, treatment,
fruit, ripeness 4857 treatment, fungicides 3193	C. serratella, population studies, apple pests 956	sugar cane diseases 8229 Colletotrichum fragariae
Coffee shoot, sampling, methods 8146	Coleoptera, medicinal plants, pests, Bulgaria	strawberry diseases 1867, 1885, 5100
Coffee soil	1423	annual report, USA 6692
erosion 3161, 5618	Coleus	varietal resistance
manganese	cell, division, xylem formation 3901	strawberry diseases 5814
availability 7191	chlorophyll, content, leaf, fluorine toxicity	tomato diseases 2107
toxicity 7191	8922	C. gloeosporioides
nutrient, availability 835	colchicine treatment, cell division 3901	Averrhoa spp., diseases 859
pH 835	enzyme activity leaf abscission layer 5991	avocado diseases 1464, 2377
potassium, availability 1572 Coffee varieties	wound healing 280, 307	annual report, USA 8051 citrus diseases 797, 6346
bean, oil, content 8159	fluorine, toxicity, leaf pigments content	clonal susceptibility, rubber diseases
comparative trials, Ecuador 834	8922	8182
drought resistance 3194	light, interaction, growth substances	coffee diseases 3204
134 ₄ S.12 Kaffa 3207	1375	control, anthurium diseases 7876
Cola	ozone, injury 1322	fruit storage, mango diseases 4873
annual report, Nigeria 4035	pigments, content, leaf, fluorine toxicity	heat treatment, papaw diseases 8171
herbicides	8922	mandarin and tangerine diseases 4800
injury dalapon 8134	stomata, structure, development 5494	mango diseases, annual report, USA 1530
diuron 8134	sulphur dioxide, injury 1322 Coleus growth substances	f. melongenae
MSMA 8134	application, methods, morphactins 1349	post-harvest dips, eggplant diseases
weed control 8134	dwarfing, morphactins 1349	4548
Cola pests, Crematogaster buchneri 7201	endogenous	varietal resistance, eggplant diseases
Cola seed, treatment, annual report, Ghana	leaf, senescence 8923	5329
7177	translocation 8923	orange diseases 7143
Colaspis hyptochlora, banana pests 380	IAA translocation, abscisic acid 8923	Passiflora foetida, diseases 8966
Colchiceae, ornamental species, Denmark	metabolism, NAA, α-decalylacetic acid	post-harvest dips, papaw diseases 8171
3863 Colchicine treatment	3900	resistance, eggplant diseases 5328
cell development, Allium spp. 2087	translocation IAA 1375, 4676, 5453	rubber diseases 844, 6423–6424 seasonal susceptibility, rubber diseases
cell division, coleus 3901	NAA, α-decalylacetic acid 3900	8182
coffee, annual report, Nigeria 4035	Coleus leaf	secondary leaf fall, prevention, rubber
growth substances, content, bean	abscission, enzyme activity 5991	diseases 8183
(Phaseolus) 6851	abscission layer, enzyme activity 5991	storage dips, mango diseases 7205, 8163
guava, annual report, India 4034	colour	varietal resistance, tomato diseases 2107
proteins, metabolism, carrot 4591	nitrogen nutrition 6133	C. lagenarium
Colchicum spp., seed, sugars, content 8883	potassium nutrition 6133	biological control, melon (cantaloup and
Cold (see also Frost) injury	pigments 8922	musk) diseases 5952 host enzyme activity, melon (cantaloup
apple 6533	senescence, growth substances, endogenous 8923	and musk) diseases 5220
nursery stock, annual report, UK	Coleus nutrition	host proteins, content, melon (cantaloup
8318	nitrogen 6133	and musk) diseases 7685
protection	phosphorus 6133	C. lindemuthianum
Aronia melanocarpa 7487	Coleus shoot, xylem formation, tissue	bean (Phaseolus) diseases
forest belts	culture 3901	annual report
apple 4186	Colletotrichum acutatum, coffee diseases	German Federal Republic 7599
cherry 4186	3204	UK 3611
plastic films, holly 7037 white paint, fruit trees and plants	C. camelliae, NPK nutrition, tea diseases 4897	host-pathogen relationships, bean (<i>Phaseolus</i>) diseases 3706
1730	C. capsici	host proteins, metabolism, bean
resistance	damage, Piper betel, diseases 1459	(Phaseolus) diseases 3705
cherry, annual report, USA 3348	host phenolic compounds, content,	incidence, Brazil, bean (Phaseolus)
electrical potential, cucumber and	capsicum diseases 5325	diseases 5235
gherkin 4458	incidence, Piper betel, diseases 1459	resistance, bean (Phaseolus) diseases
grafting height, apple 4180	C. coccodes	5981
growth substances, tomato 6100	host-pathogen relationships, tomato	seed-borne, bean (Phaseolus) diseases
hardening, respiration, pea 654	diseases 4569	5982
mechanisms, seedlings, beans (<i>Phaseolus</i>) annual report, UK	nematode complex, tomato disease 8782 varietal resistance, tomato diseases 2107	seed treatment, bean (<i>Phaseolus</i>) diseases
1934	Colletotrichum coffeanum	annual report, UK 1934 varietal resistance, bean (<i>Phaseolus</i>)
nitrogen nutrition	coffee diseases 836, 3201–3202, 3204,	diseases 3695
lawns and sports turf 304	8150	C. spp.
Stenotaphrum spp. 2179, 5448	annual report	aerial spraying, v ground spraying, tomat
nucleic acid content, Albizzia spp.	East African Community 5617	diseases 2876
1398	Kenya 3191	alternative hosts, Solanum torvum,
photoperiodism	control, coffee diseases 4861	eggplant diseases 6051
pyracantha 5485 weigela 5485	fungicides, application, methods, coffee	cacao diseases, annual report, Sabah
plant anatomy, Albizzia spp. 3927	diseases 3206 host nutrition, foliar, coffee diseases	9135 coffee diseases 5620
plant nutrition	1579	control, bean (<i>Phaseolus</i>) diseases 8690
apple 4180	India, coffee diseases 8148-8149	eggplant diseases 6051
lemon 1483	resistance, cuticular wax, coffee diseases	heat treatment, eggplant diseases 6051
potassium nutrition, lawns and sports	7193	orchids, diseases, annual report, German
turf 3895	varietal resistance, coffee diseases 2450	Federal Republic 8837

Subject Index		983
Colletotrichum spp. contd.	Contheyla rotunda	Copper contd.
statice diseases 6163	alternative hosts	toxicity
Collybia velutipes	areca pests 9156	coffee 6405
culture media 7842 edible fungi 7842	cacao pests 9156 coconut pests 9156	coffee nutrition 393 cucumber and gherkin 7683
Columnea spp., growing, as pot plants,	coconut pests 1562	cuttings, rooting inhibition, Kalanchoe
production 5390	control, coconut pests 8142	spp. 8929
Commelina spp., as weeds, oil palm 1601	Convolvulus spp.	grapevine 6753
Commelinaceae	as weeds	lettuce 2754
chromosomes 4609 classification 4609	apple, annual report, UK 3347 artichoke, globe 3633	nitrogen nutrition chrysanthemum 8589
Commiphora mukul	asparagus 5291	vegetables 8589
steroids 348	black currant 2675	rosetting, apple 1742
terpenoids 7105	citrus 3989 grapevine 566, 1903–1904, 5838–5840,	vegetables, tissue culture 121 water relations, melon (cantaloup and
Comperiella bifasciata parasite of	6731–6732, 7561	musk) 2773
Aonidiella aurantii, citrus 9096–9097	lemon 7131	Copturomimus perseae, varietal resistance,
Chrysomphalus aonidum, citrus 1491	peach 4252 tomato 6066	avocado pests 8052 Corchorus spp.
Compositae	Copernicia prunifera	nutritional value 4387
sapogenins 2942	fibre plants 8049	steroids, biosynthesis 1435
as weeds, tomato 6069 Compost	as food plants 8049 geographical distribution 3091	Cordia boissieri flavones 7106
amendments	growing, for wax production 4780	flower, composition 7106
plastic foam	as medicinal plants 8049	C. verbenacea, lipids, content 2373
orchids 8850	wax source 8049	Cordyceps heteropoda, fungal parasite,
pot plants 8850 sterilization, steam, mushroom 699	C. spp., descriptions 1458 Copper	Melampsalta puer, sugar cane 1638 Cordyline spp.
Comptonia asplenifolia, essential oil,	absorption, orange 6342-6343	fluorine, toxicity, cuttings, irrigation water
composition 8995	application	7025
Computer use	foliar capsicum 6892–6893	growth substances, endogenous, leaf, translocation 706
chloroplast studies, pea 212	coffee nutrition 2452	propagation
growth records, grapevine 552	injury, orange 4791, 9086	cuttings
Conifer bark humus, cut flowers growing 7855	orange 4791 precipitants, orange 9086	irrigation, fluorine toxicity 7025 media, fluorine toxicity 7025
Conifer litter, begonia growing, nutrition	residues, orange 9086	Coreopsis growth substances
6167	strawberry 5816	plant
Conifers	availability	anatomy
annual report, Austria 265 book 7034	nitrogen nutrition chrysanthemum 8589	chlormequat 5413 GA 5413
conference, proceedings 7035	vegetables 8589	root
landscape planting, USSR 1386	boron nutrition, onion 7750 content	growth
moss control, nurseries 743 propagation	calcium nutrition, orange 1478	chlormequat 5413 GA 5413
cuttings	leaf	Coreopsis plant, anatomy, growth substance
annual report	phosphorus nutrition, apple 1742	5413
Belgium 8835 Irish Republic 2909	seasonal variations, apple 6554 varietal differences, apple 6554	Coreopsis root growth
roofing, physiology, annual report,	water relations, apple 1742	growth substances
Italy 6960 grafting, side- 4688	nitrogen nutrition, orange 1478 potassium nutrition, orange 1478	chlormequat 5413 GA 5413
Coniothyrium clematidis, clematis diseases	seasonal variations, hop 344	Coreopsis spp., essential oil 7984
3929	shoot	Coriander
Coniothyrium clematidis-rectae, clematis diseases, annual report, Netherlands	root temperature, chrysanthemum 8863	bibliography 8974 essential oil, composition, determination
4604, 6961	seasonal variations, apple 6554	7066
C. diplodiella, rachis desiccation, grapevine	varietal differences, apple 6554	soilless culture 5487
diseases 1117	deficiency 865, 3299 apple 1742	Coriander diseases
C. juniperi, Juniperus spp., diseases 1388 Conotrachelus nenuphar	cucumber and gherkin 7683	Fusarium oxysporum, f. corianderii, incidence 8981
apple pests 4289	diagnosis, enzyme activity, vegetables	Protomyces macrosporus 2319
plum pests 4289	1145	resistance 2319
Container-grown plants annual report, UK 3834, 8838	symptoms cauliflower and broccoli nutrition	Coriander flower biology 8987
containers	1983	sex
papier mâché, colour, soil temperature	citrus 7140	growth substances 8987
7036 plastic, colour, soil temperature 7036	determination, ascorbimetry, vegetables 605	2,4-dichlorophenoxybutyric acid 1407
herbicides, root, growth 7847	fruit	Coriander growth substances
irrigation 8943	composition 1478	flower
annual report, UK 4605 media	orange nutrition 1478 strawberry 5817	sex 2,4-dichlorophenoxybutyric acid
hardwood bark 1321	quality, strawberry 5817	1407
roadside plants 2978	guava nutrition 9173 leaf, potassium content, orange 9087	F.W.450 8987 IBA 8987
types compared 4689 mulching, bark, weed control 8853	leaf analysis	MH 8987
nutrition	citrus 1484	Coriander nutrition, organic fertilizers,
annual report, UK 4605	cucumber and gherkin 7683	disease incidence, Fusarium oxysporum,
nitrogen 8941 sources, liquid 2170	orange nutrition 1478 sugar cane 412	f. corianderii 8981 Coriander seed, sowing, dates, USSR 4407
winter 2311	plant analysis	Coriander soil
potassium 2311	citrus 7140	moisture, disease incidence, Fusarium
pruning and training 2275 trees and shrubs	sugar cane 6437 plant composition, coffee 393	oxysporum, f. corianderii 8981 pH, disease incidence, Fusarium
annual report	root, growth, control, container-grown	oxysporum, f. corianderii 8981
Irish Republic 2909	plants 7847	temperature, disease incidence, Fusarium
UK 4605 weed control 8853	rootstock production, pear 5788 seed treatment, carrot 6108	oxysporum, f. corianderii 8981 Coriander varieties 1405
annual report, UK 4605	soil analysis, citrus 7140	Corn salad, weed control 7824, 8817
Contarinia nasturtii, cabbage pests 1174	sources	Corn salad nutrition, nitrogen 2903
C. pisi, pea pests, annual report, UK 3611 C. pyrivora, pear pests 5050	chrysanthemum 8589 vegetables 8589	Corn salad plant, composition, nitrogen nutrition 2903
	-	

Commun	Coumarins contd.	Cress
Cornus annual report, Netherlands 4604	content, Murraya paniculata 3973	enzyme activity, inhibition, growth
anthocyanins 8958	Cover crops	substances 8986
chlorophyll, content, phytochrome	comparative trials, fruit trees and plants	geotropism, root 8636
relationships 4937	disease incidence, Fomes lignosus, rubber,	pigments, biosynthesis, inhibition, growth substances 8986
fluorine, toxicity, plant tolerance 7845 growing, USSR 4299	annual report, France 3250	water relations, root 1223
phytochrome, -chlorophyll relationships	disorder incidence, stalk necrosis,	Cress growth substances
4937	grapevine 7560	enzyme activity, inhibition, PRB-8 8986
sulphur dioxide, injury, plant resistance 7845	Eragrostis spp., soil conservation, tea 8269	pigments, biosynthesis, inhibition, PRR-8 8986
Cornus growth substances, retardants,	Festuca rubra, pest incidence,	responses, Triton X-100 7665
chlormequat 6212	Pratylenchus penetrans, peach 7452	Cress root
Cornus leaf, composition 2304	fruit trees and plants, annual report,	development, growth substances 7665 hair, cytology 2765
Cornus propagation cuttings	Belgium 4942	Cress seed, production, annual report,
frame 6134	grass-lucerne, disorder incidence, chlorosis, cherry 8435	Belgium 4363
photoperiodism 1401	grass sward	Criconemoides ornatus, sugar cane pests 7246
treatment growth substances	citrus 5551	Crinodendron hookerianum
IBA 4718	grapevine, annual report, German	cucurbitacins 8960
NAA 4718	Federal Republic 6669 hop 3041	as medicinal plants 8960 volatile constituents 8960
Cornus root, growth, development, soil, temperature 3925	peach 1017	Crinum spp.
Cornus soil, temperature, root, development,	pear 1028	growth 707
growth 3925	plant nutrition, apple 8375	pollen tube, growth 2261
Coronilla varia seed	soil, micro-organisms, apple 2559 irrigation compared, pear 2649	tissue culture, pollen 707 Cristella confinis, lawns and sports turf,
leachate	legumes	diseases 7928
growth inhibition	oil palm 7209	Crocus
seedlings sweet pea 7625	rubber 8178, 9211 management	forcing 6165 growth phases 3865
vegetables 7625	oil palm 6410	pollen studies 4651
Corticium koleroga, coffee diseases 8150	root growth, apple 934	Crocus diseases, Uromyces croci 3317
C. salmonicolor clonal resistance, rubber diseases 7222	Medicago polymorpha, yerba maté 8118 Mikania spp., oil palm 6410	Crocus growth substances, endogenous, leaf, translocation 706
clonal susceptibility, rubber diseases 844	orchards, annual report, Belgium 902	Crocus spp., wild, ornamental value 2224
C. solani, marrow diseases 4456	Pueraria javanica	Cronartium ribicola
C. spp., control, lawns and sports turf, diseases 8918	manila hemp 2437 pests, alternative hosts, Contheyla	black currant diseases 3520 control, black currant diseases, annual
Corynebacterium fascians, -nematode	rotunda, coconut 9156	report, German Federal Republic
complex, strawberry diseases 5699	weed control, coconut 9147	8481
C. flaccumfaciens bean (Phaseolus) diseases 1213	P. phaseoloides, oil palm 7209 P. spp., citrus 5551	varietal resistance, black currant diseases 3520
seed germination, bean (<i>Phaseolus</i>)	Sorghum vulgare, pest incidence,	Crop, maturity, forecasting, bean (<i>Phaseolus</i>)
diseases 8677	Pratylenchus penetrans, peach 7452	1220
varietal resistance, bean (<i>Phaseolus</i>) diseases 1205	Stylosanthes spp. citrus 5551	Crop yields plant physiology, symposium 4
C. michiganense	soil conservation, tea 8269	statistical analysis, Boundary Line 1678
auxotrophic mutants, tomato diseases	tea, annual report, Sri Lanka 8262	Crotalaria spp.
6915 capsicum diseases 3776	weed control, coffee 1571 Cranberry	alkaloids, extraction 778 pest control, Nezara viridula, macadamia,
control, cross protection, tomato diseases	annual report	report, USA 6324
6916	Canada 2669	Croton spp., composition 1451
resistance Lycopersicon spp., diseases 2872	USA 5077 anthocyanins	Crozophora spp., as weeds, artichoke, globe 3633
tomato diseases 2859, 6916	biosynthesis	Cruciferae, as weeds, tomato 6069
survival on plant debris, tomato diseases	light 8498	Crucifers
2874 C. spp., tulip diseases, annual report,	temperature 8498 ethylene, production, fruit, growth	light, ultra-violet, reflection, flower 1986 organic acids 6783
Netherlands 2219	substances, ethephon 2691	pests, Plutella xylostella, parasites 4430
Corynespora cassiicola	frost, injury, flower bud, initiation 534	Cryptococcus spp., leaf, micro-organisms,
cucumber and gherkin diseases, annual report, USA 4368, 8585	growing USA 6687	ozone, bean (<i>Phaseolus</i>) 6839 Cryptodiaporthe castanea, chestnut
papaw diseases 1611	USSR 4299, 7512	(Castanea) diseases 1006
C. melonis, infected leaves, tissue culture,	light, intensity, anthocyanins, biosynthesis	Cryptomyzus ribis, small fruits, pests 5079
cucumber and gherkin diseases 2004 Coryphantha macromeris, alkaloids 8014	temperature, anthocyanins, biosynthesis	Cryptostegia spp., plant, composition, cardenolides 6292
C. ramillosa, alkaloids 8015	8498	Cryptus nigropictus, parasite of, Ascotis
Cosmopolites sordidus	wild, USSR 7512	selenaria, coffee pests 1584
banana pests 380 annual report, Australia 5600, 9121	Cranberry flower bud initiation 534	Cucumber and gherkin amino acids, absorption 6831
Cosmos seed, germination 725	frost injury 534	annual report
Cotoneaster	Cranberry fruit	Austria 114
annual report, Netherlands 6962 drought, resistance, leaf, biology 2999	composition 101 pigments, biosynthesis, growth substances	Belgium 5148, 8578 Canada 1944, 2734, 5883
frost, resistance, varieties, France 2158	2691	Cyprus 3604
growing, containers 2917 species, drought resistance 2999	size measurement 5093	German Federal Republic 7598, 8579
Cotoneaster leaf, biology, drought resistance	seed, number per fruit 5093	Irish Republic 5150 Netherlands 1132, 1135, 8581
2999	Cranberry growth substances	St. Lucia 8577
Cotoneaster propagation cuttings, media 708	ethylene, production, ethephon 2691	UK 1937, 5154, 6773–6774
seed 2917	pigments, biosynthesis, ethephon 2691 Cranberry nutrition, phosphorus, deficiency	USA 1130, 1935, 3616, 4368, 7601, 8585
Cotoneaster seed	1062	ascorbic acid, content, humic acid 684
germination 8959 viability 8959	Cranberry seed, number per fruit, fruit, size 5093	bactericides
Cotoneaster varieties, frost resistance 2158	Cranberry varieties	absorption, translocation, streptomycin 6849
Couepia polyandra, fruit, description 9282	annual report, Irish Republic 1857	application, surfactants, adjuvants,
Coumarins biosynthesis	register, USA 3356 Crataegus spp., diseases, Sphaerotheca spp.	streptomycin 6849 breeding and selection 620
disease resistance, carrot 2141	annual report, UK 6128	disease resistance 621
ethylene treatment, carrot 2141	Crematogaster buchneri, cola pests 7201	gynoecious lines 4439

Subject Index		987
Cucumber and gherkin contd.	Cucumber and gherkin contd.	Cucumber and gherkin contd.
breeding and selection contd.	harvesting contd.	polyploids 8643
parthenocarpy 5203	time of contd.	processing, brining, fruit quality 8668
for processing 4440	sowing, dates 5886	proteins
cadmium, determination 4389	herbicides	determination, electrophoresis 4384
carbon dioxide	flower	metabolism, growth substances 151
supplementary 5216	sex	pruning and training 1188
supplementary from diesel exhaust,	chloramben 8647	methods compared 3681
injury 3625	dalapon 8647	tipping 8649
carotene, content, leaf, light, intensity	dinoseb 8647	report, USA 1940
4459	naptalam 8647	respiration, humic acid 684
chlorophyll biosynthesis, ethylene 2779	injury 5209 chloramben 626, 628, 2768	seedling growth, <i>Pseudomonas</i> spp. 5212
content	nitralin 625	transport, containers, plastic 4375
leaf, light, intensity 4459	tolerance, dinoseb 627	soilless culture
mutants 8656	translocation 6830	media, re-use 6924
metabolism 151	hybrids	nutrient solution, concentration 5215
chloroplast	comparative trials 8645	spraying, aerial 1195
chlorophyll content, growth substances	gynoecious 620	storage 5205, 5970
2005	insecticides	cold, salt treatment 2782
number, growth substances 2005 cold, resistance, electrical potential 4458	-fungicide mixtures 6820 injury, carbamates 2742	temperature flower, sex 6832
compost 4451	residues 3328	growth
cucurbitacins, pest resistance 1182	arsenic 3329	under glass 2767
cytology, male sterile mutant 1991	irrigation	under plastic 2767
dark treatment, leaf, optical properties	drip 3624	tissue culture
8659	salinity problems 4376	leaf
drought, resistance, root, systems 4450	sprinkler 3624, 4376	photosynthesis, measurement 4457
electrical potential, cold resistance 4458	damage 3624	pigments, degradation 4459
enzyme activity	trickle 4376	ovary 3693
cotyledons, tissue culture 163 growth substances, ethephon 2777	water, composition 5163 lead	transpiration, toxins, fusicoccin 4478 transport, containers, refrigerated 7426
humic acid 684	determination 4389	as virus indicator plants 3473
root, magnesium toxicity 1997	residues 4936	vitamins, content 3339
enzymes .	light	water relations, wind 5959
biosynthesis	blue	weed control 623, 625-626, 628, 1996,
magnesium nutrition 5963	pigment stability 2776	2768, 5209, 6778, 7680, 8647
manganese nutrition 5963	responses, varietal differences 8660	methods compared 5211
determination, seedling 162	intensity	wind, water relations 5959
ethylene	leaf, optical properties 8659	Cucumber and gherkin diseases 3319 Alternaria cucumerina, aerial spraying
chlorophyll, biosynthesis 2779 interaction, light, chlorophyll	photosynthesis, potassium nutrition 5958	1195
biosynthesis 2779	pigment stability 2776	Ascochyta melonis, resistance 621
production 3688	pigments, degradation 4459	bacterial, unidentified, control 6822
treatment, flower, sex 5968	responses, varietal differences 8660	bacterial wilt, resistance 1182
frost, injury, chloroplast, damage, light	interaction, ethylene, chlorophyll	Corynespora melonis, infected leaves,
2003	biosynthesis 2779	tissue culture 2004
fruiting	red	cucumber mosaic virus 158
precocity	pigment stability 2776	Erwinia tracheiphila, varietal resistance
irrigation 1995 light	responses, varietal differences 8660 manganese, content, plant, soil steaming	5218 Erysiphe cichoracearum 5206, 5225,
intensity 1995	8606	6819
sunlight 1995	mulching	control 6820
temperature 1995	annual report, Western Samoa 7602	host nucleic acids, biosynthesis 8662
fungicides	plastic 4449	varietal resistance 5945
-insecticide mixtures 6820	mutants 1196	Fusarium spp., resistance 621
residues, determination, benomyl 7609	chlorophyll content 8656	mosaic
growing	male sterile 1991 nitrite, toxicity 5893	control, cultural methods 3682
Bulgaria 3620–3621 frames 2737	nitrogen, metabolism, tissue culture 632	varietal tolerance 4444 Oidium spp. 160
under glass 1139, 2767	nucleic acids	Olpidium brassicae, vectors, tobacco
artificial illumination 877	biosynthesis, diseased leaves 8662	necrosis 8651
economics 5156-5157, 5225	metabolism, growth substances 151	pea mild mosaic 4502
fruit, leaf, composition 4565	phosphates, metabolism, humic acid 684	Phomopsis sclerotioides 1191, 8655
labour requirements 5156-5157	photoperiodism, ethylene, production	annual report, Canada 3603
pest control 3627	3688	soil temperature 8655
in greenhouses	photosynthesis inhibition, frost, injury 2003	Pseudomonoas lachrymans, aerial spraying 1195
glass 2738 plastic 2738	light intensity, potassium nutrition	Pseudoperonospora cubensis 2000, 5206
as an intercrop, pineapple 9198	5958	varietal resistance 5945
peat 3682	measurement, methods, tissue culture	Pythium spp., resistance 621
nutrition 7683	4457	Rhizoctonia spp., resistance 621
under plastic 2767, 6811	pigments	soil-borne 3319
in plastic tubes, perlite 7781	degradation	Sphaerotheca fuliginea 160, 3319, 3685,
protected cultivation 2159, 5159	chilling 4459	5954
straw bales 1142, 4451	light, intensity 4459	control 6822, 7388, 8482 seed treatment 5955
annual report, Belgium 4363 nutrition 5213	oxygen concentration 4459 stability	varietal resistance 1183, 7673
tunnels	light	systemic necrosis, vectors, Olpidium
plastic 4449	coloured 2776	brassicae 4453
annual report, UK 4366	intensity 2776	tobacco necrosis 8651
USA 5205	planting	virus
growth	date 1204	annual report
internode length, dwarf varieties 1993	spacing 1204	German Federal Republic 7597
seed, size, shape, position in fruit 6061	time 5204	Netherlands 6772
growth chambers	pollen	watermelon mosaic, detection, aerial
light distribution 7689 plant variability 7689	germination calcium nutrition, fluorine toxicity	photography, annual report, USA 600
temperature distribution 7689	6932	Cucumber and gherkin flower
harvesting	fluorine toxicity, calcium nutrition	bud, ethylene, production 3688
mechanical 1204, 5967	6932	sex
time of	pollination, nucleic acids, biosynthesis	growth substances 4463, 5227, 6829
planting, spacing, time 5886	3693	endogenous 1198

cucurbitacins, pest resistance 1182

Cucumber and gherkin flower contd.	Cucumber and gherkin nutrition contd.	Cucumber and gherkin seed contd.
sex contd.	deficiency 7683	development, growth substances, ethephon 5969
growth substances contd. ethephon 634, 5231, 5967	leaf analysis 7683	exudate, composition 189
herbicides 8647	toxicity 7683	germination
seed treatment, irradiation 5949	magnesium	irrigation 4376
temperature 6832	enzymes, biosynthesis 5963	sowing, orientation 6061
Cucumber and gherkin fruit	toxicity 1997	mixtures, for mechanical harvesting 1200
anatomy 4464	manganese	production, growth substances, ethephon
firmness, measurement 8669	deficiency 7683	5231
nutrients, content, growing, under glass 4565	enzymes, biosynthesis 5963	sowing
parthenocarpic 620	leaf analysis 7683	dates 5886 direct 1943
parthenocarpy	toxicity 7683 minor elements, toxicity 157	peat 7606
growth substances 4463	molybdenum	treatment
DPX 1840 5968	deficiency 7683	electromagnetic fields, injury 5226
quality, processing 8668	leaf analysis 7683	fast neutrons, flower sex 5949
set (820	toxicity 7683	fungicides 5955
growth substances 6829 chlorflurenol 5967	nitrogen 1204, 5215, 6826	gamma rays 154
ethephon 5228	application, methods compared 5950	flower sex 5949
parthenocarpic 635	availability 117	hypertonic salt solution, wafering 6061
pruning and training 6829	flower, sex 166	pelleted 1943
storage life, wax coatings 5970	nitrate accumulation 2870	X-rays 154
wax coatings 5205, 5970	sources, compared 2870	Cucumber and gherkin soil
Cucumber and gherkin growth substances	toxicity 2870	amendments polystyrene, nutrient availability 117
chlorophyll, metabolism 151 chloroplast	NPK 1143, 4451 peat extracts, plant, composition 5344	urea formaldehyde foam resins, nutrient
chlorophyll content 2005	phosphorus	availability 117
number 2005	availability 120	fumigation
endogenous	calcium content 6826	Meloidogyne spp., carbathion 8783
determination 6827	potassium content 6826	Olpidium brassicae, methyl bromide
GA 4460	soil temperature 6826	8651
humic acid 684 plant 154, 1198	sources 3802 potassium 5215	Phomopsis sclerotioides chloropicrin 1191
flower, sex 5227	application, methods compared 5950	methyl bromide 1191
seed 1197–1198	photosynthesis 5958	nutrients, availability 5160
shoot tip 6828	zinc	sterilization, steam, disease control 8651
enzyme activity, ethephon 2777	deficiency 7683	temperature
flower	leaf analysis 7683	disease incidence, Phomopsis
Sex	toxicity 7683	sclerotioides 8655
abscisic acid 5227 CCDP 4463	Cucumber and gherkin pests Acalymma vittata	plant nutrition 6826 Cucumber and gherkin varieties 4371, 4451
ethephon 634, 5231, 5967, 6829	host preference 2772	annual report
fruit	varietal resistance 1182	Irish Republic 1939
parthenocarpy	annual report, Cyprus 3604	UK 5149
DPX 1840 5968	aphids 4383	USA 3618
morphactins 4463	biological control 5956	comparative trials 5945
TIBA 635, 4463	Aphis gossypii	Hungary 7674 USA 5204
set chlorflurenol 5967	biological control 3685, 5956 control 5222	disease resistance 1183
ethephon 5228, 6829	Bemisia tabaci, control 5222	Erwinia tracheiphila 5218
injury, DPX 1840 5968	Diabrotica balteata, varietal resistance	Erysiphe cichoracearum 5945
interaction	1182	Pseudoperonospora cubensis 5945
applied, ethephon, and endogenous	D. undecimpunctata, host preference	Sphaerotheca fuliginea 5954, 7673
5227	2772	drought resistance 4450
tannins GA 2825	D. undecimpunctata howardi, varietal resistance 1182	early harvesting 6811 gherkin, annual report, Austria 114
IAA 2825	Diaphania nitidalis, host preference 2772	heat resistance 4440
nucleic acids, metabolism 151	Ditylenchus dipsaci 3878	herbicides, tolerance 627, 8647
proteins, metabolism 151	Hylemya platura, control 5928	Kecskeméti Hamvas 5947
seed, development, ethephon 5969	integrated control 3627, 5217	light responses 8660
shoot, growth, ethephon 5228	Macrosiphum euphorbiae, biological	processing
Cucumber and gherkin leaf ferredoxins, isolation 3689	control 3685 Meloidogyne incognita 5351	brining 8668 canning 5206
light	M. spp., soil fumigation 8783	Sweden 115
absorption	Oligonychus coffeae, control 5222	USA 5205
dark treatment 8659	Syrphus spp., control 5222	virus tolerance, cucumber mosaic 4444
light intensity 8659	Tetranychus spp., control 5222	Cucumis melo var. flexuosus
reflection	T. telarius	pests
dark treatment 8659 light intensity 8659	biological control 3685 integrated control 7802	Aphis gossypii, control 5222 Bemisia tabaci, control 5222
transmission	predators, <i>Phytoseiulus persimilis</i>	Oligonychus coffeae, control 5222
dark treatment 8659	1193, 7687	Syrphus spp., control 5222
light intensity 8659	Thrips spp., biological control 5051	Tetranychus spp., control 5222
nutrients, content, growing, under glass	T. tabaci	Thrips tabaci, control 5222
4565	biological control 3685	Cucurbita spp.
Cucumber and gherkin nutrition annual report, New Zealand 5152	control 5222 Trialeurodes vaporariorum	carbohydrates biosynthesis 5961
boron 2caland 5152	biological control 3685	translocation 5961
deficiency 7683	integrated control 7802	leaf
leaf analysis 7683	Tyrophagus longior, biological control	development
toxicity 7683	3685	carbohydrates, biosynthesis 5961
calcium, absorption, annual report,	Cucumber and gherkin plant, sex, ethylene,	photosynthates, translocation 5961
German Federal Republic 7599	production 3688	photosynthates, translocation 5961
deficiency 7683	Cucumber and gherkin root composition, magnesium nutrition 1997	Cucurbitacins, determination, begonia,
leaf analysis 7683	exudate, composition 189	annual report, Belgium 8835 Cucurbits
toxicity 7683	systems 4450	annual report
fertilizers, liquid 5950	Cucumber and gherkin rootstocks, -scion	Cyprus 3604
FYM 4451	relationships, incompatibility 155	Israel 3608
general, leaf analysis, symposium 2489	Cucumber and gherkin seed	breeding and selection 1941
humic acid 684	composition, growth substances 1197	cucurbitacins, pest resistance 1182

composition, growth substances 1197

2		
Cucurbits contd.	Cuttings contd.	Cuttings contd.
diseases	containers, compared, ornamental plants	shoot
melon mosaic, resistance 7684 melon mosaic, vectors, aphids 6818	frames, trees and shrubs 6134	age azalea 3917
Phomopsis sclerotioides 1192	grading, chrysanthemum, annual report,	Podocarpus spp. 2982
resistance, breeding and selection 3316	UK 4605	tree fruits 4178
virus, spread 7599	under hessian, tea 8263	carbohydrates content, grapevine 67
watermelon mosaic virus, alternative host, <i>Momordica charantia</i> 5951	leaf	nitrogen content, grapevine 6719
flowering, autotetraploids 5966	begonia 8884 Echeveria elegans 7932	part grapevine propagation 1089
mulching, plastic 4378	translocation, growth substances,	tree fruits 4178
pollination 3692	heteroauxin 1320	pinching, azalea 3917
bees 3692 rootstocks, disease resistance, <i>Phomopsis</i>	treatment	position on source plant, gooseberry 6679
sclerotioides 1192	growth substances cytokinins, begonia 2223	size, tea 7266
soil, cultivation 4378	GA, begonia 2223	size, dahlia 8888
soilless culture, annual report, France	IAA, begonia 2223	soil
3605 weed control 1946, 6812, 8588	NAA, begonia 2223	amendments, plastic foam 8850 temperature, tea 8263
Cumin	sugars, begonia 2223	soilless culture, hop 5504
bibliography 8974	leaf removal apple 3381	source
essential oil composition, varietal differences 1406	tea 7266	suckers of trees on own roots
content, varietal differences 1406	light	cherry 1807 plum 1807
Cumin diseases	flowering date, chrysanthemum 3842	source plants
Fusarium oxysporum, f. cumini 3937	tea, annual report, Malawi 6455	age, Kalmia latifolia 7057
Pseudomonas cumini 1406 Cumin nutrition	Malus spp., ornamental, propagation,	defoliation
nitrogen 3938	annual report, Canada 8836 media	root formation, grapevine 1090 shoot formation, grapevine 1090
NPK 6250	annual report, Netherlands 1314, 4604	light intensity, dahlia 8890
phosphorus 3938	azalea 3917, 8845	nutrition
Cumin seed, treatment, fungicides 3937 Cumin varieties, comparative trials 1406	Baystat, trees and shrubs, annual	azalea 6221 begonia 8884
Cupressocyparis spp., growing, peat,	report, German Federal Republic	nitrogen, tomato 2130
nutrition, nitrogen 8941	7844 Chamaecunaris snn 6213	photoperiodism, azalea 6221
Cupressus spp.	Chamaecyparis spp. 6213 comparative trials, ornamental trees and	protein content, tomato 2130
dormancy, phosphorus, absorption 3909 phosphorus, absorption, dormancy 3909	shrubs 3838	ringing, mango 3219 side shoot removal, root formation,
Curcuma spp.	compared, ornamental plants 3918	shoot formation, grapevine 1090
fungicidal properties 9033	mango 3220	temperature, azalea 6221
as medicinal plants 9033	ornamental shrubs 708 plum 3508	treatment
C. zedoeria, essential oil, fungicidal properties 6256	saintpaulia 8844	growth substances cherry 1809
Currants	sawdust, grapevine 1091	IBA, mango 3219
annual report	tea 2480, 4895	peach 1809
Australia 4296	trees and shrubs 8844–8845 viburnum 2312	poinsettia 2284
German Federal Republic 5072 Netherlands 100	woody ornamentals, annual report,	ornamental plants 2166 storage
diseases, virus, review 103	USA 6129	azalea 6221
economics, orchard depreciation 3352	meristem, nutrition, carnation 717	controlled atmosphere, ornamental
growing, mechanical harvesting, review 7502	mist apple 2544	plants 2166 grapevine 561, 1900
harvesting, mechanical, review 7502	equipment, trees and shrubs 4684	under plastic, grapevine 1087
herbicides, residues, soil, chlorthiamid,	review 2166	Populus spp. 3009
dichlobenil 6542	Nisula roll technique, ornamental plants 2166	temperature, ornamental plants 2166
varieties USA 3358	nutrition	temperature begonia 2223
winter hardiness 3358	aluminium, toxicity, grapevine 576	geranium 8867
weed control 6542	boron, grapevine 5123	ornamental plants 2166
Curvularia andropogonis, Cymbopogon spp., diseases 1417	photoperiodism begonia 2223	poinsettia 8867 treatment
C. senegalensis, sugar cane diseases 4097	shrubs 1401	boron, grapevine 5123
C. spp.	planting	ethylene, <i>Ŝedum</i> spp. 5456
corm treatment, gladiolus diseases 2241	sites compared, ornamental plants 2167-2168	etiolation, apple 7338
epiphyte, pecan 2653 C. trifolii	spacing, <i>Chamaecyparis</i> spp. 6213	fumigants, methyl bromide, rhododendron 747
incidence, gladiolus diseases 5423	under plastic	fungicides
Vetiveria spp., diseases 336	apple 2544	benomyl, Scindapsus spp., 6204
C. tuberculata, orange diseases 7143 C. uncinata, Canna spp., diseases 4639	azalea 3917 tea 8263	captan, peach rootstock 1817 Dexon, Scindapsus spp., 6204
Cuticle	polarity, apple 2543	streptomycin, Scindapsus spp.,
growth substances	root	6204
absorption	nematode control, <i>Albizzia</i> spp. 751	sugar cane, annual report, South Africa 7230
fruit, tomato 2885 leaf, fruit trees and plants 2885	ornamental plants 4613	Terrazole, Scindapsus spp., 6204
nitrogen, absorption, leaf, apricot 2612	Prunus spp. 5797	thiram
properties, berry, disease resistance, coffee	treatment, growth substances, IBA, tree	blueberry 1866
7193 structure	fruits 8323 root development, anatomical studies,	peach rootstock 1817 gamma rays, chrysanthemum 6970
fruit	rhododendron, annual report,	growth substances 869, 2166
cherry 2618	Netherlands 4604	aminozide, poinsettia 2281
orange 5571	rooting inhibition	auxins, tea 3264 BA
leaf, orange 5571 studies	copper, <i>Kalanchoe</i> spp. 8929	poinsettia 2281
citrus, annual report, USA 2375	tap water, Kalanchoe spp. 8929	Sedum spp. 5456
techniques 6	rooting capacity	bean (Phaseolus) 6853, 8678
vegetables, annual report, UK 1938 Cuttings	growth substances endogenous	bougainvillea 8942 chlormequat, poinsettia 2281
adventitious buds, coffee 6403	apple 926	Chloromone, magnolia 5466
bud, removal, dahlia 8888	conifers 3910	chlorophenoxyacetic acid, Sedum sp
callusing	dahlia 8889 lavender 2323	5456 chrysanthemum 6971
root, development, grapevine 2713 shoot, development, grapevine 2713	lavender 2323 trees and shrubs 1328	chrysanthemum 6971 Cutstart, azalea 3917

Continue and	Cyamanaja contd	Cydia pomonella contd.
Cuttings contd.	Cyamopsis contd.	
treatment contd.	C. tetragonoloba	control
growth substances contd.	diseases, virus, detection, toludine blue	apple pests 8396
2,4-D, magnolia 5466	metachromasia 2807	traps 2529
ethephon	growth substances	virus, apple pests, annual report,
chrysanthemum 4623	interaction	Australia 450
Sedum spp. 5456	chlormequat, GA application 2808	forecasting
ethyl hydrogen propyl phosphate,	GA, chlormequat application 2808	apple pests 1761
	seed	light traps 1764
Sedum spp. 5456		
F529, poinsettia 2281	treatment	male traps, apple pests 1766
GA	6-benzylaminopurine 2808	pear pests 1761
apple 2543	chlormequat 2808	fruit, storage, apple pests 987
Ipomoea spp. 2930	6-furfurylaminopurine 2808	fungal parasites, apple pests 1768
morning glory 4632	GA 2808	host-pest relationships, apple pests 3410
heteroauxin 1320	seedling growth, GA 2808	integrated control, apple pests 5739
Hormodin, viburnum 2312	pests	population studies, apple pests 5739
Hormodin no.3, azalea 3917	Asphondylia cyamopsii, varietal	traps, apple pests 479
	resistance 3727	varietal resistance, apple pests 8380
IAA 1011, 1408, 1900		Cydonia japonica, diseases, Phyllosticta
bean (Phaseolus) 3721	A. spp. 5269	prunicola 6657
bougainvillea 2980	Cecidomyia texana 5269	C. oblonga, diseases, Phyllosticta prunicola
cherry 4513	plant variation 204	6657
conifers 3910	varieties, pest resistance, Asphondylia	Cylindrocarpon destructans, tea diseases
grapevine 1091, 1899	cyamopsii 3727	430
hop 5504	Cyclamen	C. didum, cacti, diseases 2267
olive 9110	annual report	C. spp., planting, mechanical, pot plants
	Austria 265	5393
plants from irradiated seeds, bean	Netherlands 6126	Cylindrocladium lanceolatum, control, tea
(Phaseolus) 3711	UK 2153	diseases 9278
IBA 1408		
apple 2543–2544, 7338	breeding and selection, flowering, date	C. scoparium
azalea 3917	6171	azalea diseases 2287
blueberry 1866	ethylene, injury 6132	annual report, Netherlands 6961
bougainvillea 2980	flowering	control, cacti, diseases, annual report,
cherry 1809	date 6170	USA 8834
chrysanthemum 4623	breeding and selection 6171	Erica spp., diseases, annual report,
	growing	German Federal Republic 8837
conifers 5462	as an intercrop, Strelitzia spp. 8879	host nutrition, azalea diseases 6225
cornus 4718	peat, nutrition 7893	magnolia diseases 7039
grapevine 2713	as pot plants 6170	relative humidity, azalea diseases 6225
magnolia 5466	production 2226, 5390	temperature, azalea diseases 6225
mahaleb 8323	light 7893	varietal resistance, azalea diseases 7943
Malus spp. 3931	intensity, flower bud, initiation 8887	C. tenue, control, tea diseases 9278
morning glory 4632	photoperiodism, flower bud, initiation	Cylindrosporium padi, cherry diseases 498
myrobalan 1850	8887	Cymbidium
oleander 7959	planting, spacing 2226	mycorrhiza, relationships 310
olive 2314, 9110	potting composts 2227	tissue culture, apices 311
orange 3986	types compared 2225, 2938	Cymbidium spp.
peach 1809, 3467	seedling, production 2226	diseases, mosaic, annual report, German
peach rootstocks 1817	sulphur dioxide, injury 6132	Federal Republic 8837
plum 1850, 5061	temperature 4652	enzymes, content, leaf 5895
poinsettia 2281	responses 5421	ethylene
pomegranate 8323	Cyclamen diseases, Fusarium oxysporum	production
Populus spp. 3009	3866	flower 6209
Prunus mahaleb 6616	Cyclamen flower	growth substances 6209
P. spp. 3509	bud initiation	flower
tree fruits 4178	light 8887	bud development 5460
trees and shrubs 1011	photoperiodism 8887	bud initiation 5460
Ziziphus jujuba 3293	Cyclamen growth substances, retardants,	temperature, annual report,
Jiffy-Grow, viburnum 2312	Pydanon 2163	Netherlands 6126
malformin, bean (Phaseolus) 3721	Cyclamen nutrition	pigments, biosynthesis 6209
2-methyl-5-oxybenzofuran-3-carbonic	fertilizers, slow-release 2227, 6964	flowering
acid, peach 3467	NPK, peat 7893	date 7937
NAA	potting compost analysis 2938	temperature 7937
blueberry 1866	Cyclamen seed	forcing, chilling requirements 7937
bougainvillea 2980	germination	growth substances
cherry 4513	seed size 6169	endogenous, leaf, translocation 706
cola, annual report, Nigeria 4035	temperature 4652	ethylene
conifers 5462	production 2226	Actinomycin D 6209
cornus 4718	sowing, dates 2226	cycloheximide 6209
olive 9110	Cyclamen soil, sterilization, steam, disease	ethionine 6209
peach rootstocks 1817	control 3866	production NAA 6209
pepper, black 1408	Cyclamen varieties, miniature 7002	interaction, ethionine, NAA application
Sedum spp. 5456	Cycloconium oleaginum	6209
NAAM, blueberry 1866	infection process, olive diseases 1518	pigments
ornamental plants 7886	olive diseases 3166	biosynthesis
plum 3508	Cydia molesta	Actinomycin D 6209
Rootone, viburnum 2312	integrated control, peach pests 514	cycloheximide 6209
SADH, ornamental plants 713	peach pests 5041	ethionine 6209
TIBA, cola, annual report, Nigeria	pear pests 1837	NAA 6209
4035	quince pests 2662	pollination
trees and shrubs, annual report,	C. pomonella	ethylene, production 6209
Netherlands 4604	aerial spraying, apple pests 7372	pigments, biosynthesis 6209
nutrients, boron, blueberry 1866	apple pests 48, 958, 1744, 1758, 1762,	propagation
paraffin, grapevine 7555	1767	protocorm, tissue culture 6205-6206,
stratification, grapevine 1899	annual report	8935
sugars, trees and shrubs 1011	Australia 5693	shoot, tissue culture 2272
vitamins, apple 2544, 7338	Canada 5694–5695, 8314	tissue culture
wounding	German Federal Republic 6506	protocorm
olive 2314	UK 8318	growth substances, treatment 6205
Prunus spp. 3509	biological control	media 6206
Cyamopsis spp.	apple pests 5739, 8395	propagation 8935
economics, USA 6858	annual report, German Federal	Cymbopogon martini
taxonomy, cytotaxonomy 6858	Republic 6504	essential oil 3039

Combones and in second	Describer described and the second	D. 1.4. 4. 4. 4.
Cymbopogon martini contd.	Dactylium dendroides, soil steaming,	Dark treatment contd.
growing, for essential oil production	mushroom diseases 6956	fungus control, plant, bean (Phaseolus)
3039 " "	Dactyloctenium spp., as weeds, sugar cane	5251
C. spp.	6435	growth studies, seedlings, bean (Phaseolu
diseases	Dacus cucurbitae	5256
Curvularia andropogonis 1417	control, Trichosanthes anguina, pests	leaf, optical properties, cucumber and
leaf curl 336	5223	gherkin 8659
essential oil	varietal resistance, cucurbits, pests, annual	seedling development, melon (cantaloup
nutrition, annual report, Sarawak 3933	report, India 3607	and musk) 5962
production 1418	D. oleae	Darkness
economics 1417	parasites, Opius concolor, olive pests	carbon dioxide
growing, peat 1417	6377	fixation
nutrition, NPK 1417	poisoned bait, olive pests 7165	Kalanchoe spp. 4674
pests	D. spp., protein bait mixtures, olive pests	Sedum spp. 4674
nematodes 1417	816	growth studies, bean (Phaseolus) 5256
Oligonychus pratensis 5495	Dahlia	leaf, movements, bean (Phaseolus) 5989
Cynanchum vincetoxicum	annual report, Netherlands 2219	nitrogen, content, tomato 5356
glycosides 9034		nucleic acids, content, tomato 5356
	breeding and selection, phyllotaxy 2229	plant, nutrition, tomato 5356
ketones 9034	ethylene	Darluca filum, fungal parasites, Puccinia
organic acids 9034	production	palargonii-zonalis, geranium 6982
Cynodon dactylon	growth substances 4653	Dasylagon aegeriae, parasite of, Ficivora
lawns and sports turf, Yugoslavia 7915	photoperiodism 4653	leucoteles, fig 73
as weeds	growing	Dasyneura brassicae, brassicas, pests, annu-
control by artichoke, jerusalem 4397	for cut flowers 7894	report, German Federal Republic 8579
grapevine 6729	Netherlands 2228	Dasyneura mali, apple pests 1763, 2581
orange 8066	photoperiodism, tuber, development	D. tetensi, black currant pests 7497
C. spp.	4653	Date
diseases, Sclerotinia homoeocarpa, annual	phyllotaxy 2229	annual report, Tunisia 3981
report, USA 2152	pinching, flower quality 2231	enzyme activity
lawns and sports turf 6193	topping, flower quality 2231	fruit
weed control 8913	Dahlia diseases, Erwinia carotovora 3915	disorder incidence 8108
as weeds	Dahlia flower	ripening 812, 8108
bean (Phaseolus) 6842	cut, production 2231, 7894	enzymes
citrus 3989, 6337–6338	quality, shoot numbers 2231	fruit 8108
coffee 4858	-shoot relationships 2231	treatment, fruit, quality 8108
grapevine 1100, 1904, 5841, 6731,	Dahlia growth substances	growing
7561	ethylene	Africa, book 9109
oil palm 1601	production	Algeria 1512
peach 1016	abscisic acid 4653	India 6371
sugar cane 6435, 7237, 9237-9238	aminozide 4653	United Arab Republic 6370
tea 9272	ethephon 4653	insecticides, residues, fruit, malathion
Cynosurus spp.	tuber	8107
lawns and sports turf, variety trials 7021	development	irrigation, trickle v. sprinkler 809
orchard tracks 3890	abscisic acid 4653	nutritional value 7162
Cyperus rotundus, as weeds, orange 8066	aminozide 4653	planting, WANE system, roadside plants
C. scariosus, oil, medicinal properties 1416	ethephon 4653	, 3908
Cyperus spp.	Dahlia propagation	pollination, mechanical, methods
as weeds	cuttings	compared 1515
bean (Phaseolus) 3699, 6842	bud, removal 8888	pruning and training, Iran 810
citrus 3989	rooting capacity, growth substances,	storage
coffee 4858	endogenous 8889	pest control
annual report, East African	size 8888	fumigation
community 5617	source plants, light intensity 8890	ethyl formate 813
grapevine 1904	pot-tuber, production, capillary bench	hydrogen phosphide 813
melon (cantaloup and musk) 3679	2230	temperature, fruit, quality 5581
oil palm 1601	vegetative, phyllotaxy 2229	tissue culture
peach 1016	Dahlia tuber	embryo, propagation 8106
rubber 4881, 7226	development	shoot-tip, propagation 8106
sugar cane 405, 8206, 9237-9238	growth substances 4653	Date diseases
vegetables 1946–1947	photoperiodism 4653	fungus, India, review 7160
Cyphomandra betaceae	production, Netherlands 2228	Fusarium oxysporum, f. albedinis, book
diseases, Arabis mosaic virus 1528	Dahlia varieties	9109
pests, Xiphinema diversicaudatum,	comparative trials	F. oxysporum f. albedinis, review 1513
vectors, arabis mosaic 1528	annual report, Netherlands 6126	Date disorders
Cypripedium spp.	German Federal Republic 7895	India, review 7160
flower, development 2977	Damson	sugar wall, enzyme activity 8108
seedling, raising 742	annual report, UK 3347	Date flower, perianth aestivation 4831
soil, requirements 1379	economics, Switzerland 5059	Date fruit
tissue culture, meristem, annual report,	growing, Switzerland 5059	composition, nutritional value 7162
Italy 6960	harvesting, mechanical, shakers 7480	-leaf relationships 810
Cyrtopodium spp., pollen tube, nuclei 1381	high density planting, Switzerland,	quality
Cytisus spp.	statistics 8324	enzyme activity 8108
growing, peat, nutrition, nitrogen 8941	planting	temperature 5581
varieties, comparative trials, Netherlands	high density, Switzerland 904	ripening
7050	survey, Switzerland 904	composition, varietal differences 7161
Cytospora cincta, apricot diseases 7423	production and trade, Switzerland 5059	enzyme activity 8108
C. leucostoma, apple diseases, annual report,	Damson pests, Panonychus ulmi, annual	Date leaf, -fruit relationships 810
Yugoslavia 3350	report, German Federal Republic 6506	Date pests
C. spp.	Damson propagation 26	Batrachedra amydraula 1514
apricot diseases 8425	Damson rootstocks, -scion relationships	parasites, Hymenobosomina spp. 151
host sugars, content, apricot diseases	1040	birds 2417
5757	Damson varieties	control, India 5583
Czechoslovakia	processing, annual report, German	India, review 5582
hop, growing 7993	Federal Republic 7310	nitidulid beetles 8107
medicinal plants	Switzerland 5059	Oligonychus afrasiaticus 2416
economics 7096	Dark treatment	Parlatoria blanchardi, population studies
growing 7096	equipment 8309	811
Dactylaria humicola, philodendron diseases,	fruit	phycitid moths 8107
annual report, USA 8834	composition, melon (cantaloup and	storage
Dactylis spp.	musk) 5962	fumigation
roadsides, establishment 3888	flavour, melon (cantaloup and musk)	ethyl formate 813
weeds, lawns and sports turf 5443	5962	hydrogen phosphide 813

774		110111011111111111111111111111111111111
Date propagation	Defoliation contd.	Diaphorina citri
offshoots 8106	mechanical, carrot, annual report,	alternative hosts, Citrus spp., pests 8082
date, removal from mother plant 8105	Netherlands 8581	population studies, Citrus spp., pests
source plants, treatment, growth	potassium iodide, fruit trees 6512	8082
substances 8106	surfactants, nursery stock 7314	Diaporthe citri
Date seed	before weed control, blueberry 8492	citrus diseases 797, 9093
germination 9125	Delasperma spp.	annual report, Australia 4782
germinaton 2415	ground cover plants 710	irrigation, fungicide application, citrus
Date varieties	herbicides, injury 1323	diseases 3135
comparative trials, India 8104	weed control 710	mandarin and tangerine diseases 3128
fruit, composition 7161	Delia cilicrura, bean (Phaseolus) pests,	D. perniciosa, apple diseases 476
India 5584	annual report, UK 3611	Diaprepes abbreviata, citrus pests, annual report, USA 2375
United Arab Republic 6370	D. platura, infestation source, vegetables,	Diatraea centrella, Bahamas, sugar cane
Datura spp. alkaloids 3004, 3970, 6289, 9035	pests 8720	pests 8238
biosynthesis 3073	Delonix regia	D. lineolata, Bahamas, sugar cane pests
growth substances 8002	enzyme activity 1702	8238
content 1432	seed, amino acids 6236	D. saccharalis
ultra-violet light 6288	Delphinium, alkaloids, content 783	sugar cane pests 2472
determination 3965	Delphinium flower, cut, preservatives, vase	parasites, sugar cane pests 2469
production, tissue culture 1439	life 4611	predators, sugar cane pests 8239
biosynthesis, tissue culture 2333	Delphinium root, systems 1345	varietal resistance, sugar cane pests
chlorophyll, biosynthesis, growth	Delphinium spp.	1617, 2466, 2472, 8193
substances 8002	alkaloids 6162	D. spp.
coumarins 3970	application to, lettuce, pea 4754	aerial spraying, sugar cane pests 8235
diseases pea mild mosaic 4502	Delphinium spp., plant, composition, ajaconine 6995	biological control, review, sugar cane pests
virus-3B 8017	Delphinium varieties, annual report, USA	damage, assessment, sugar cane pests
growth substances	1441, 6129	2471
alkaloids, biosynthesis, GA 8002	Dendrobium spp.	Mexico, sugar cane pests 6440
chlorophyll, biosynthesis, GA 8002	breeding and selection, report, USA	parasites, sugar cane pests 5654
leaf, extracts, virus, inhibition, bean	6130	Dibrachys cavus, biological control of,
(Phaseolus) 642	pollination 4682	Aegeria myopaeformis 3409
light	taxonomy, cytotaxonomy 3905	Dicentra spp., propagation, rhizome 4613
ultra-violet	Dendrophoma obscurans, strawberry diseases	Dichondra sativum, grasses, lawns and
alkaloids, content 6288	2702	sports turf 739
seed, treatment, alkaloids, content	Denmark, horticultural, organizations 3298	Dictamnus albus, alkaloids 9038
6288	Deraeocoris nebulosus, predator on,	Didymella applanata
lipids 9037	Panonychus ulmi, apple 4213	raspberry diseases 2687, 7509
nutrients, content, determination 6293	Desiccants endothal, blueberry 8492	nnual report, UK 7489 D. lycopersici, tomato diseases 6083
organic acids, biosynthesis 8016 propagation, cuttings 2168	herbicides, diquat, begonia, annual report,	Dieffenbachia spp.
seed, treatment, light, ultra-violet,	Belgium 8835	acaricides, injury 7024
alkaloids, content 6288	neo-decanoic acid mixture, onion 4526	annual report, USA 8834
tissue culture 8001	paraquat, sugar cane 4894	diseases, dasheen mosaic 2975
alkaloids	Desmia funeralis	growing, in pots, annual report,
biosynthesis, growth substances	biological control, grapevine pests 1922	Netherlands 6127
2333	grapevine pests 1922	nutrition
production 1439, 3969	Desmodium spp., leaf, wax, composition	major elements, plant, analysis 1376
callus	3055	minor elements, plant, analysis 1376
alkaloids, biosynthesis 9035	Deuterophoma tracheiphila	pests, mites, control 7024
growth substances, treatment 9036	citrus diseases 365, 9091	plant, composition, major and minor
melanogenesis 1433	fungicides, application, methods compared, lemon diseases 3130	elements 1376 Dieliomyces microsporus, biological control,
media 1439 D. stramonium, mycoplasma, indicator	host amino acids, content, lemon diseases	mushroom diseases 7834
plants 278	8061	Digitalis lanata, glycosides 9014
D. stramonium, as a rootstock, capsicum,	interaction, virus, orange diseases, annual	D. purpurea
mutation induction 2839	report, Italy 8050	glycosides, determination 8020
Daucus spp., essential oil, composition 763	iron, nutrition, lemon diseases 364	mutants 4640
Deer	phytoncides, lemon diseases 3129	steroids 8019
repellants, varietal preference, hop pests	resistance	D. spp.
7095	breeding and selection, lemon diseases	annual report, Austria 347
repellents	7126, 7144, 9078	diseases, annual report, German Federal
cherry pests, annual report, German	lemon diseases 8060	Republic 7063
Federal Republic 7309	virus interaction, orange diseases 4802 toxins, chlorophyll, biosynthesis, lemon	glucosides 3074 glycosides 8018
Citrus pests, annual report, USA 2375 Defoliation	diseases 4801	extraction, methods 5521
branching, brussels sprouts 8631	varietal resistance, citrus 3131	hybrids 6294
calcium cyanide, fruit trees 6512	Deutzia growth substances, retardants,	pigments, content 7107
chemical	chlormequat 6212	seed
apple 6510-6511	Diabrotica adelpha, vectors, rugose mosaic,	germination
annual report, USA 24	bean (Phaseolus) pests 6845	cardenolides, content 1448
cherry 6510-6511	D. balteata	metabolic processes 3075
nursery stock, annual report, UK	varietal resistance, cucumber and gherkin	sapogenins, content 1448
3347, 8316 peach 6510-6511	pests 1182	seedling, development 1448
pear 6510-6511	vectors, rugose mosaic, bean (<i>Phaseolus</i>) pests 6845	steroids biosynthesis 1435
plum 6510–6511	D. spp., varietal resistance, melon (cantaloup	content 2357
potassium iodide, rose 2299	and musk) pests 2001	sterols, metabolism, seed germination
rubber 8183	D. undecimpunctata, host preference,	3075
trees fruits 5716	cucumber and gherkin pests 2772	Digitaria sanguinalis
growth substances	D. undecimpunctata howardi, varietal	as weeds
apple 6511	resistance, cucumber and gherkin pests	container-grown plants, holly 4693
cherry 6511	1182	gladiolus 6175
endogenous, grapevine 7586	Dialeurodes citri	sisal 7992
ethephon	citrus pests 7148	strawberry 8510
hazel 5024	fungal parasites, citrus pests 8081	tomato 6904
nursery stock 5024 nursery stock 7314	Dianthus spp., pests, Heterodera trifolii 3317	D. spp. as weeds
peach 6511	Diaphania hyalinata, cucumber and gherkin	artichoke, globe 3633
pear 6511	pests, annual report, St. Lucia 8577	bean (Phaseolus) 8683
plum 6511	D. nitidalis, host preference, cucumber and	cacao 8134
magnesium chlorate, fruit trees 6512	gherkin pests 2772	carrot 8809

Subject Index		99
Digitaria spp. contd.	Diplodia natalensis contd.	Dormancy contd.
as weeds contd.	storage dips, mango diseases 7205	growth substances contd.
cucurbits 623, 6812	D. spp.	endogenous contd.
herbs 6777	control	apricot 5758
lawns and sports turf 8914 peach 1016	budding time, rubber diseases 8181 cultural methods, rubber diseases 8181	coffee 7196 grapevine 8568
rubber 9210	post-harvest dips, orange diseases 6362	peach 5758
sugar cane 6435, 7237, 9236	storage dips, lemon diseases 6363	leaf removal, fruit trees and plants 652
vegetables 680, 6777	Diplodina castaneae, chestnut (Castanea)	naringenin, content, peach 7453
Dill	diseases 1006	peach, report, USA 8320
ascorbic acid, carotene, content, leaf 4728	Dipsacus spp., growth substances, responses, GA 7117	phosphorus, absorption, conifers 3909 varietal differences, onion 6885
bibliography 8975	Diptacus gigantorhynchus, plum pests 2658	water relations, fruit trees and plants
essential oil, composition 346	Directory, horticultural, research institutes	6521
flavonoids 3340	7278	winter hardiness, fruit trees and plants
growth chambers	Discosia punicae, pomegranate diseases 1526	Dethidella vloi elenel resistence rybber
growth chambers leaf production 8617	Disease, incidence, plant nutrition 865	Dothidella ulei, clonal resistance, rubber diseases 8181
plant composition 8617	Diseases	Dracaena spp.
soilless culture 5487	assessment methods 4126	diseases, Fusarium moniliforme 8924
weed control 8977 annual report, German Federal	vegetables 5165	growing, media, annual report, Belgium 8835
Republic 7064	crop losses, assessment methods 1692 detection, aerial photography, cucumber	propagation, annual report, Belgium
economics 2315	and gherkin, annual report, USA 600	5386
Dill diseases	forecasting	Dracocephalum renati, essential oil, conten
alfalfa mosaic, yield reduction 8976	Botrytis spp., hop, annual report,	7983
celery mosaic, yield reduction 8976 cucumber mosaic, yield reduction 8976	German Federal Republic 7064 Cercospora apii, celery, annual report,	Drechslera cactivora, cacti, diseases 2267 D. halodes, marrow diseases 4456
Fusarium spp., yield reduction 8976	USA 4367	D. hawaiiensis, sugar cane diseases 4097
virus, incidence, German Federal Republic	C. musae, banana 6386	D. rostrata, sugar cane diseases 4097
6781	Mycosphaerella ligulicola,	Drepanopeziza ribis
virus, unidentified, yield reduction 8976	chrysanthemum 1333	control
Dill plant, variation, geographical source 8978	Phytophthora infestans, annual report, German Federal Republic 7597	black currant diseases, annual report, German Federal Republic 8481
Dill seed, sorting, air flow 4373	Pseudoperonospora humuli, hop 345	red currant diseases, annual report,
Dimmockia javanica, parasite of,	Venturia inaequalis 1751	German Federal Republic 8481
Promecotheca cumingi, coconut 8143	host-pathogen relationships	varietal differences, black currant disease
Dionysia hissarica, chromosome numbers 281	light, reflection, annual report, USA 599	4308 varietal resistance, red currant diseases
D. involucrata, chromosome numbers 281	organic acids, tulip 3877	4308
Dioscorea caucasica	phytoalexins, production, capsicum	Drosanthemum spp.
tuber	1268	ground cover plants 710
anatomy 2358	saponins, content, ivy 5464	weed control 710
morphology 2358 D. spp.	mycoplasma, review 7298–7299 soil borne, nutrition 864	Drosophila spp., resistance, breeding and selection, tomato pests 5335
alkaloids, biosynthesis 3058	vegetable growing, peat 7607	Drought
annual report, India 3971	Dissotis plumosa, ground cover plants,	disease incidence, Peronospora parasitica
diseases	growth retardants 6157	cabbage 8622
Botryodiplodia theobromae 6297	Distantiella theobroma cacao pests 3182	flower, drop, eggplant 1272 fruit, composition, mandarin and
Cladosporium spp. 6297 Penicillium spp. 6297	annual report, Ghana 7177	tangerine 8093
Rhizoctonia spp. 6297	population studies, cacao pests 9143	fruit trees and plants 8285
Rhizopus nodosus 6297	Ditylenchus dipsaci	injury, flower biology, bean (Phaseolus)
glycosides 8021	tulip pests 2260 alternative hosts, tulip pests 3878	7722 leaf •
content, tuber, incubation 6295 determination 4763–4764	bulbs, pests 3864	composition
growing 5522	hydrangea pests, annual report, UK	sugar cane 2474, 8200
USSR 5523	6128	tomato 2474
harvesting 5523	narcissus pests 6186	phosphorus, absorption, oil palm 4071
as medicinal plants, Venezuela 8022 photoperiodism, plant, composition,	annual report, UK 3834 onion pests 1254, 3317	photosynthesis, temperate tree fruits 90 plant
sapogenins 356	annual report	cell numbers, temperate tree fruits 9
propagation, cuttings 1434, 5523	Irish Republic 1939, 6770	composition, temperate tree fruits 90
sapogenins 5522	Netherlands 6772	potassium, deficiency, apple 4979
content 1454 photoperiodism 356	UK 3610, 5153 population suppression, by compositae	resistance breeding and selection
saponins	283	coffee, annual report, Nigeria 4035
content 2334	tulip pests 6186	tea, annual report, Zambia 8144
production, tissue culture 6296	annual report, Netherlands 6961	evaluation techniques
steroids, metabolism, tissue culture 2342	D. spp., bulbs, pests, annual report, Netherlands 2219	grapevine 6727
taxonomy, sapogenins, content 1454 tissue culture, saponins, production,	Dizygomyza cepae, leek pests 662	strawberry 8508 frost resistance, peach 7444
extraction methods 6296	Dizygotheca spp.	leaf
tuber, incubation, glycosides 6295	plant, morphology 7051	biology, cotoneaster 2999
Diospyros blancoi, synonyms 5593	propagation, cuttings, mist 7051 Dodder , mycoplasma, vectors, sandal spike,	composition snowdrop 2963
Diospyrus lotus, as a rootstock, persimmon 8115	Santalum spp. 6270	temperate tree fruits 908
Diplocarpon earliana	Dormancy	plant nutrition, apple 4962
strawberry diseases 1073	amino acids, cabbage 8632	ribosome activity, bean (Phaseolus)
varietal resistance, strawberry diseases	apple, report, USA 8320	2802
3536 Diplocarpon rosae	DNOC, apple 4973	root, systems, cucumber and gherkin 4450
control, rose diseases 5476, 8305	temperature	rootstock-scion relationships, apple
resistance, rose diseases 6266	fruit trees and plants 907	8354
rose diseases 2995	gladiolus 291	rootstocks
annual report, USA 6129	lily 2949	apple 5741
varietal resistance, rose diseases 5473, 8950	carbohydrates, metabolism, rhubarb 7759	citrus 3988 soil moisture, apple 4962
Diplodia natalensis	chlorogenic acid, content, peach 7453	stomata
fruit storage, mango diseases 4873	frost resistance, black currant 6671	number, peach 7444
mandarin and tangerine diseases 4810	growth substances	size, peach 7444
mango diseases 3242 orange diseases 4810, 7143	endogenous apple 6575	trees and shrubs 1382–1383 respiration, temperate tree fruits 908
	appro our	topically temperate are it und

7.74		1101110411414111105114010 1979 7011 70
Drought contd.	Eggplant contd.	Eggplant growth substances
root, systems, grapevine 6745	breeding and selection	fruit
sucrose, content, sugar cane 404	disease resistance 1271	set ·
		4-CPA 3786
Drying	Myrothecium roridum 6050	
fruit 22	F ₁ hybrids, annual report, USA 3617	Duraset 3786
hop 3048	report, USA 1940	2,4-D 3786
onions, methods 2835	carbon dioxide, supplementary from diesel	injury, 2,4-D 3786
vanilla, ovens 2321	exhaust, injury 3625	leaf
	grading, mechanical 4913	senescence
vegetables 22		GA 671
Dryocosmus kuriphilus, resistance, breeding	growing	
and selection, chestnut (Castanea) pests	under glass, pest control 3627	kinetin 671
8447	protected cultivation 2159, 5159	seed
Duboisia myoporoides	straw bales 1142	treatment
seed	herbicides, tolerance, dinitroanilines 1267	GA 3783
germination, temperature 6298	insecticides	IAA 3783
treatment, growth substances, GA		NAA 3783
6298	absorption 4546	Eggplant leaf
Duranta spp., propagation, cuttings 2167	injury 2123	senescence
Durian fruit, aroma 7171	residues 3328, 4546	ascorbic acid, treatment 671
	lead	growth substances
Dusts, electrostatic 5674	absorption 2851	
Dwarfing, growth substances, ancymidol,	residues 4936	GA 671
Zantedeschia spp. 4660		kinetin 671
Dye plants	translocation 2851	Eggplant nutrition 869
capsicum 2092	nitrite, toxicity 5893	calcium, requirements 4381
Indonesia 1674	nutrients, content 5890	FYM 6898
liquorice 3943	photoperiodism, flower bud, initiation	major elements, plant analysis 4381
pomegranate 3943	8762	mangnesium, requirements 4381
root, anatomy 3172	physiology 869	minor elements, plant analysis 4381
seed, oil, biosynthesis 3336		nitrogen
	planting, spacing 3784	application
walnut 3943	pollen, viability 4547	
wild, Crimea 862	storage	foliar 238
Dysaphis devecta, resistance, apple pests	cold, salt treatment 2782	time 6898
2539	controlled atmosphere, relative	requirements 4381
D. plantaginea	humidity 8763	NPK 1273, 3785, 6898
apple pests, annual report, Netherlands		phosphorus, application, time 6898
1 5698	dips, disease control, Colletotrichum	Eggplant pests
population studies, apple pests, annual	spp. 6051	annual report, Sarawak 3609
report, UK 3372	temperature 8763	aphids 4383
	temperature, flower bud, initiation 8762	Epilachna vigintioctopunctata 670
resistance, apple pests 2539	weed control 6777	
D. spp., apple pests, annual report, German	review 6065	Hemitarsonemus latus 4539
Federal Republic 6506		integrated control 3627
Dysmicoccus brevipes, pineapple pests	Eggplant diseases	Radopholus similis, alternative hosts
1612	Aspergillus spp. 1274	7608
Earthworms, scavenger of, endogenous fungi,	Colletotrichum gloeosporioides	Tetranychus cucurbitae 1275
apple 1752	f. melongenae	Tetranychus telarius 4383, 4539
East African crops, book 376	post-harvest dips 4548	control 7768
Echeveria elegans	varietal resistance 5329	Eggplant, plant, composition, plant nutrition
leaf, growth 7932		6898
propagation, cuttings, leaf 7932	resistance 5328	Eggplant rootstocks
	C. spp. 6051	
E. spp.	alternative hosts, Solanum torvum	comparative trials, French West Indies
flower, bud initiation, photoperiodism	6051	4545
8925	heat treatment 6051	disease resistance, Pseudomonas
photoperiodism, flower bud, initiation	Fusarium spp.	solanacearum 4545
8925		own-rooted plants compared 5329
Echinocereus spp., edible fruits 822	incidence 6327	Solanum spp. 4545
Echinochloa crus-galli	seed treatment 6899	Solanum torvum 4545, 5329
as weeds	little leaf	tomato rootstock CRA 66 4545
gladiolus 6175	control 8760	Eggplant seed
lawns and sports turf 8914	antibiotics 7767	treatment
E. spp.	symptoms 7766	growth substances
as weeds	Myrothecium roridum, varietal resistance	GA 3783
artichoke, globe 3633	6050	IAA 3783
		NAA 3783
coconut 8141	Penicillium spp. 1274	
fruit trees and plants 452	Phomopsis vexans, varietal resistance	hydroquinone, methylene blue,
peach 1016	5329	paranitrophenol, orthonitrophenol
vegetables 7627	Pseudomonas solanacearum	6899
Echinodorus brevipedicellatus, diseases,	rootstock resistance 4545	ionizing irradiation
Aphanomyces spp. 2974	varietal resistance 1271, 5329, 8759	fruit
Economics	Pythium spp. 1274	ripening 2852
grapevine nutrition 5851	Rhizoctonia solani 1274	size 2852
orchard depreciation, peach 4250	Rhizopus nigricans 1274	Eggplant varieties 3781, 4371
Edwardsiana rosae, population studies, fruit	soil-borne 3319	annual report
trees and plants, pests 8326	Verticillium spp.	Israel 3608
EEC EEC	annual report, Canada 2734	USA 3618
apple	seed treatment 6899	Ceylan SM 164 4545
economics 3341	Eggplant flower	comparative trials 5329
production and trade 3341	bud initiation	Pakistan 5330
legislation, horticultural 5692	cotyledon removal 8762	disease resistance 5329
pear, production and trade, economics	photoperiodism 8762	Colletotrichum gloeosporioides, f.
3342	temperature 8762	melongenae 5329
small fruits	composition 1276	Pseudomonas solanacearum 8759
economics 3343	development 1276	Pakistan 1277
production and trade 3343	drop 1276	Phomopsis vexans 5329
Eggplant	drought 1272	Pseudomonas solanacearum 5329
amino acids 8761	morphology 4547	Pusa Kranti 3782
annual report		
Cyprus 3604		report, Sri Lanka 2733
Cyprus 3004	Eggplant fruit	
	ripening, seed treatment, ionizing	USSR 1272
India 3607	ripening, seed treatment, ionizing irradiation 2852	USSR 1272 Waimanalo Long 5331
India 3607 Malawi 8580	ripening, seed treatment, ionizing irradiation 2852 set, growth substances 3786	USSR 1272 Waimanalo Long 5331 Elaeagnus angustifolia, diseases, Phomopsis
India 3607 Malawi 8580 UK 6774	ripening, seed treatment, ionizing irradiation 2852 set, growth substances 3786 size	USSR 1272 Waimanalo Long 5331 Elaeagnus angustifolia, diseases, Phomopsis spp. 4719
India 3607 Malawi 8580 UK 6774 arsenic	ripening, seed treatment, ionizing irradiation 2852 set, growth substances 3786 size planting, spacing 3784	USSR 1272 Waimanalo Long 5331 Elaeagnus angustifolia, diseases, Phomopsis spp. 4719 E. spp.
India 3607 Malawi 8580 UK 6774	ripening, seed treatment, ionizing irradiation 2852 set, growth substances 3786 size	USSR 1272 Waimanalo Long 5331 Elaeagnus angustifolia, diseases, Phomopsis spp. 4719

Subject Index		99
Elaeis spp., types, descriptions 1598	Enhydra fluctuans	Enzyme activity contd.
Eldana saccharina	glycosides 4765	fruit contd.
control, cultural methods, sugar cane	growth substances, endogenous 3011	grapevine 1118
pests 8240 East Africa, survey, sugar cane pests	E. spp., plant, composition, lactones 349 Enicostemma literale	growth substances, GA, grapevine 1122
8220	alkaloids 3077	organic acids, metabolism, tissue
Elder, growing, Austria 4295	essential oil 3077	culture, tomato 1298
Elder diseases, virus, annual report, Canada	sterols 3077	papaw 8170
2669 Elder growth substances, retardants,	Enterobacter aerogenes antagonistic to, Pseudomonas tolaasi,	peach, damage causes browning 82 proteins, biosynthesis, fig 1008
chlormequat 6212	mushroom 3828	ripening 88, 7306
Elder varieties Donau 4295	antagonostic to, <i>Pseudomonas tolaasii</i> , mushroom 2905	avocado 358
Haschberg 4295	Entomophthora aphidis, fungal parasite,	banana 7176 capsicum 2100
Electric current	aphids, peach 1022	citron 8096
growth, stimulation, tomato 688 plant, weight, tomato 688	E. planchoniana, fungal parasite, aphids, peach 1022	date 812, 8108
Electrical activity	E. spp., fungal parasite, Mythimna phaea,	papaw 3247–3248
Ipomoea spp 3847	sugar cane 8234	pear 1031, 8472 tomato 5362, 5366, 5664, 8793
pea 3847 root, pumpkin 5224	Entomosporium maculatum pear diseases 8478	senescence, peach 5044
shoot, pumpkin 5224	quince diseases 8478	soil salinity
Xanthium spp. 3847	Entyloma boraginis, control, borage diseases,	Luffa cylindrica 2838 okra 2838
Electrical conductivity, measurement, equipment 7286	annual report, German Federal Republic 7964	storage
Electrical potential	Enzyme activity	apple 6592, 7412
cold resistance, cucumber and gherkin	amino acids	capsicum 4543
4458 measurement, pumpkin 3687	biosynthesis, soil salinity, pea 2815 pea 7732	pear 4284 temperature, capsicum 4543
pollination	bark	tomato 256
brussels sprouts 1175	nitrogen nutrition, apple 7398	fruit abscission layer
cabbage 1175 Electrical resistance, disease incidence,	seasonal variations, apple 7398 bean, fermentation, cacao 4048	cherry 7431 citrus 2405, 3146
proliferation, apple 7376	bud, flower bud initiation, olive 9112	growth substances, orange 8085
Electromagnetic field treatment, strawberry 7541	bulb dormancy, onion 6885	fungicides, copper, tea, annual report, Malawi 6455
Elephantopus scaber, glycosides 3076	flavonols, biosynthesis, onion 2834	grafted plants, apple 8402
Eleusine indica	calcium nutrition, vegetables, annual	growth substances
as weeds lawns and sports turf 8914	report, UK 8584	cytokinins, fenugreek 3977 ethephon, cucumber and gherkin 277
sisal 7992	growth, sugar cane 2475	IAA, pea 6010
E. spp.	ripening, sugar cane 2475, 6449	impatiens 7884
as weeds coconut 8141	carbon dioxide concentration, grapefruit	kinetin, pea 6010 pea 2067, 2820, 7736–7737
oil palm 8166	cations, tea 4903	tomato 5361, 8799
rubber 4881, 7226, 9208, 9210	chloroplast, pea 8725	humic acid
sugar cane 7235 tea 9272	corm, dormancy, gladiolus 4655 cormel, dormancy, gladiolus 4655	cucumber and gherkin 684 tomato 684
Eleutherococcus senticosus, composition	cotyledons, tissue culture, cucumber and	inhibition
3961 Elliottia enn. growing 7040	gherkin 163 determination	amino acids, pea 217
Elliottia spp., growing 7040 Elsinoë ampelina, control, grapevine diseases	gladiolus 4655	artichoke, jerusalem 1305 bean (<i>Vicia</i>) 648
8559	leaf 1063	carrot 1305
Elsinoë ampelina, pruning and training, grapevine diseases 569	root 1063 disease resistance, <i>Alternaria kikuchiana</i> ,	diseased plants, apricot 1805 fungicides
E. fawcetti, citrus diseases 797	pear 7458	apple 6578
E. piperis	diseased plants	apricot 4952
alternative host, <i>Piper guineense</i> , pepper, black, diseases 6254	apple 8402 bean (<i>Phaseolus</i>) 3708	growth substances, cress 8986 pea 5286, 8724
pepper, black, diseases 6254	carrot 2897	prenyl pyrophosphates
E. veneta Didymella applanata, raspberry	Fusarium oxysporum, f. lycopersici,	bean (Phaseolus) 2030
diseases, annual report, Irish Republic 1857	tomato 7796 melon (cantaloup and musk) 5220	melon (cantaloup and musk) 2030 rubber 2030
Emilia spp., as weeds, sugar cane 9236	papaw 3246	Pseudomonas phaseolicola, bean
Empoasca flavescens, grapevine pests 3587 E. kraemeri, bean (Phaseolus) pests, annual	Poa pratensis 740 Pythium spp., vegetables 8791	(<i>Phaseolus</i>) diseases 177 root extracts, bean (<i>Vicia</i>) 2033
report, USA 4367	tomato 1296, 3788, 6084–6085	strophanthin, pumpkin 2778
Encarsia formosa	yellow vein mosaic, okra 6887	inhibitors, determination, bean (Phaseolu
parasite of Trialeurodes spp., tomato, annual	endive 4396 fertilizers, algae, tomato 6098	7723 interaction, growth substances, 2,4-D, ros
report, Canada 2734	flower	1395
T. vaporariorum, vegetables 7802	ornamental plants 3851	iron, deficiency, tomato 7789
E. spp., parasite of, Trialeurodes spp., tomato, report, UK 5885	temperature, lily 2250 tulip 7911	leaf achlorophyllous, bean (<i>Phaseolus</i>)
E. tricolor 2703	flower abscission layer 5991	4480
Endive air pollution, injury, exhaust gases 865	flower bud, carbohydrates, metabolism, peach 3479	bean (<i>Phaseolus</i>) 6850 cacao, annual report, Trinidad and
annual report	frost resistance	Tobago 9136
Netherlands 1132, 8581	grapevine 5138	coloured light
USA 8585 breeding and selection	plum 7477 <i>Prunus</i> spp. 7477	bean (<i>Vicia</i>) 8712 disease incidence, celery 8816
annual report	fruit	orange 7149
Italy 6771 USA 4368	browning	development
enzyme activity 4396	banana 1545 peach 5044	tea 5664 tomato 5362
herbicides, injury, dacthal 8605	development	diseased plants, peach 5771
seedling raising, pots, types compared	apple 4993	flower bud initiation, olive 9112
5390 species, classification 4401	tomato 5664 disorder incidence, date 8108, 8108	fungicides, bordeaux mixture, apricot 4952
weed control 5680, 8605	disorders	growth substances, tomato 6102
Endive diseases bidens mottle 5912	internal browning, apple 7412	light spinach 4396
lettuce mosaic 5912	peach 5044 gooseberry 2683	sugar cane 8251

Enzyme activity contd.	Enzyme activity contd.	Enzymes contd.
leaf contd.	root contd.	extraction contd.
light intensity disease incidence, celery 8816	soil salinity, pea 8722 tomato 8792	spinach 8593 flower, petunia 3851
disease resistance, tomato 4575	root extracts	fruit
peach 3491	bean (Phaseolus) 2033	citron 8095
pear 3491	bean (Vicia) 2033	citrus, annual report, USA 2375
manganese deficiency, sugar cane 1632	pea 2033	date 8108
manganese nutrition, grapevine 1111	root nodule, pea 1229	disease resistance, apple 5736
nitrogen nutrition, apple 7398	root nodule bacteria, pea 1229	irradiation, banana 6390
pea 8723 petiole glands, impatiens 4642	seasonal variations, apple 50	papaw 8170 ripening, banana 6389
phenolic compounds metabolism, pear	ascorbic acid treatment, mustard 3013	tomato 2883
6645	bean (Phaseolus) 192, 5992	latex, rubber 3254
photosynthesis, capsicum 6044	carbohydrates, metabolism, fenugreek	leaf
plant nutrient status, grapevine 5138 seasonal variations, apple 7398	3053	light, sugar cane 8251
senescence, tea 5664	Citrullus colocynthis 9032 ethylene, capsicum 8758	ornamental plants 5895 pea 2819, 3740
soil salinity	fruit storage, capsicum 6047	photoperiodism, Kalanchoe spp. 7933
Luffa cylindrica 2838	germination	Prunus spp. 32
okra 2838	fenugreek 5537	spinach 1959
spinach, plant sex affects 129 squash 7691	fluorine toxicity, pea 6866 onion 2833	taxonomy apricot 7419
sugars, content, sugar cane 1632	pea 2062, 2818, 5280, 8723	Prunus mume 7419
tea 4904	squash 5964	vegetables 5895
temperature, grapevine 5138	pea 218, 2061, 8723	plant
trace elements, spinach 2747	ripening, pea 8723	banana 9134
water relations, grapevine 5138 leaf abscission layer	storage, pea 8723 temperature, capsicum 8758	sugar cane 8252 plum 523
bean (Phaseolus) 2035	seedling	root
coleus 5991	bean (Phaseolus) 196	bean (Vicia) 5999
light 1673	herbicides, pea 2070	pea 1234
far red, mustard 7980	Phalaenopsis spp. 5458	secretion, abscission, ethylene 448
fenugreek 3977 pea 7733	seedlings amino acids, metabolism, bean	seed, germination, pumpkin 7693 seedling, mustard 3012
red, mustard 7980	(Phaseolus) 2029	shoot, pea 3742
watermelon 7690	watermelon 8661	structure 1673
molybdenum nutrition, grapevine 1112	shoot	treatment
nitrogen, metabolism, capsicum 8754	carbohydrates, metabolism, peach 3479	fruit, quality, date 8108 root, amino acid absorption, pea 1239
nut, milk, plant nutrient status, coconut 4853	nitrogen nutrition, pea 3741	tuber, artichoke, jerusalem 8598
nutrients, deficiency diagnosis, vegetables	temperature, grapevine 5138	varietal differences, sugar cane 8191
1145	tissue culture, asparagus 6020	vegetables 7692
organic acids, metabolism, mushroom	tomato 2127	virus, control 888
7839	shoot-tip, tea, annual report, Sri Lanka	Eotetranychus uncatus, population studies,
pH, grapevine 1119 photoperiodism	8262 soil salinity, tomato 8778	fungicides, apple pests 5737 E. willamettei
impatiens 7884	specificity 1673	grapevine pests 1920
organic acids metabolism, Kalanchoe	starch degradation, sugar cane 1647	predator-prey relationships, grapevine
spp. 8926	substrate discrimination 1702	pests 1920
photosynthesis, sugar cane 8248	sulphur, deficiency, bean (<i>Phaseolus</i>) 3717	Ephialtes spp., biological control of, Aegeria myopaeformis 3409
phytoalexins, production, tulip 736 plant	tissue culture, carrot 694	Epicampoptera spp., coffee pests, annual
carbohydrates, metabolism, banana	tuber slices, tissue culture, artichoke,	report, Nigeria 4035
9134	jerusalem 130	Epicoccum spp., epiphyte, pecan 2653
copper, toxicity, lettuce 2754	urea, grapevine 1119	Epidendrum spp.
ethylene 1703 herbicides	varietal differences, squash 164 wound healing, coleus 280, 307	tissue culture leaf, media 6207
tea 8265	Enzymes	root 4683
tomato 6926	biosynthesis	Epilachna chrysomelina, annual report,
mustard 6009	coloured light, bean (Vicia) 8712	Cyprus 3604
pea 6009 senescence, apple 8402	magnesium nutrition, cucumber and gherkin 5963	E. varivestis, bean (Phaseolus) pests 3709
soil salinity, tomato 6926	manganese nutrition, cucumber and	E. vigintioctopunctata, eggplant pests 670 Epilobium spp., taxonomy 266
sugar cane 8252	gherkin 5963	Epiphyas postvittana, apple pests 1767
pollen germination	mustard 3012	Epistrophe balteata, predator on, aphids,
eschscholtzia 2213	pea 7732 tissue culture	peach 1022
Haemanthus albiflos 8910 propagation methods, grapevine 1092	artichoke, jerusalem 3630	Eragrostis curvula, nematode population control, sugar cane 425
proteins	chicory 7624	E. spp., as a cover crop, tea 8269
biosynthesis	capsicum 6895	Erechtites spp., as weeds, sugar cane 9236
bean (Phaseolus) 4479	characterization, seed, heterosis, tomato	Erica spp.
pumpkin 161	3810	breeding and selection, annual report,
respiration kohl-rabi 6799	cotyledon, varietal differences, coffee 4059	Netherlands 4604 diseases
plum 7477	degradation, mustard 3012	Ceratocystis stenoceras, annual report,
turnip 148–149	determination	German Federal Republic 8837
review, RNA synthetases 1701	bean (Phaseolus) 8700	Cylindrocladium scoparium, annual
root	fruit	report, German Federal Republic
aluminium toxicity, pea 8721 bean (Vicia) 5266, 5999	grapevine 1118, 5146 pear 4278	8837 growing 7040
boron toxicity, sugar cane 8217	pea 8724	in pots 2277
ethylene production, sugar cane 4103	root, bean (Vicia) 5999	plunging, lattice pot containers 2279
ethylene treatment, carrot 2141	seedling, cucumber and gherkin 162	transport 2278
growth substances, amino acids, pea 4509	diseased plants light, celery 8816	propagation, cuttings, media 8844
histological studies, pea 5282	pea 8718	Erigeron flower
magnesium toxicity, cucumber and	etiolated seedlings, pea 6008	preservatives 6979
gherkin 1997	extraction	vase life 6979
nitrogen nutrition, apple 7398	bean (Phaseolus) 647	Erigeron spp.
onion 3768 pea 7734	Leucothoe spp. 8949 mustard 2316–2317	flavonoids, taxonomy 3857 taxonomy, flavonoids, content 3857
seasonal variations, apple 7398	rhododendron 8949	Erigeron varieties, comparative trials 3860

Subject Index Erioischia brassica, brussels sprouts pests, Erysiphe cichoracearum contd. Essential oil contd. annual report, UK 3614 scorzonera diseases 1160 chamomile contd. squash diseases 6819 composition 3050 Eriophyes gracilis, raspberry, pests, annual report, UK 3514

E. vitis, grapevine pests 5134 Trichosanthes spp., diseases 6823 light, coloured 3081 content, nitrogen nutrition 3054 determination 6285 varietal resistance Eriopsis connexa, predator on, Eriophyes vitis, grapevine 5134 Aster spp., diseases 6992 cucumber and gherkin diseases 5945 medicinal properties 4770 Eriosoma ulmi, small fruits, pests 5079 cucurbits, diseases, annual report, India Cinnamomum cassia, composition 2325 cinnamon, composition 3015 Eruca sativa seed E. communis citrus peel, estimation, method oil, biosynthesis, rainfall 8982 production, rainfall 8982 Erucaria spp., as weeds, artichoke, globe host proteins, content, pea diseases 7 varietal resistance, pea diseases 7730 citrus seed, annual report, USA Citrus spp., content, peel 6368 clove, composition 3018, 7965 E. cruciferarum assessment methods, brussels sprouts diseases 5165 Comptonia asplenifolia, composition Erwinia amylovora resistance, brussels sprouts diseases, annual report, UK 5149 apple diseases Coreopsis spp. 7984 cumin, composition 1406 annual report German Federal Republic 6504 E. polyfaga, begonia diseases 6229 Curcuma zedoeria, fungicidal properties UK 8318 E. polygoni 6256 Cymbopogon martini 3039 control, pear diseases, annual report, control, sweet pea diseases 7885 Canada 8314
as an epiphyte, pear diseases 5787
fruit trees and plants, diseases 6644
German Democratic Republic, apple seed treatment
bean (*Phaseolus*) diseases 6847
pea diseases 6861
E. spp., control 8305
Erythrina lithosperma C. spp. nutrition, annual report, Sarawak 3933 production 1418 economics 1417 diseases 1746 hawthorn windbreaks, pear diseases 85 Daucus spp., composition 763 dill, composition 346 as shade plants coffee 9163 tea 5662 hosts 6519 Dracocephalum renati, content 7983 incidence Eucalyptus citriodora, composition 3030 hawthorn diseases 4274 pear diseases 4274, 5049 pear diseases 3494, 4275, 6643 E. fruticetorum composition 7077 content 7077 E. spp., as shade plants, cacao 7181
E. suberosa, alkaloids 5480 Erythroneura ziczac parasites, Anagrus epos, grapevine pests 5861 pear diseases 3494, 4273, 6643 annual report Netherlands 5698 UK 8318 resistance, breeding and selection, pear diseases 6637 E. spp. Australia 4737 varietal resistance, grapevine pests 5861

Erythronium spp., tuliposides 8908

Erythroxylon coca, pests, review, Bolivia composition 3029 content 3029 Eugenia henyana, fungicidal properties 6256 varietal resistance apple diseases 4208, 7336 pear diseases 3486, 5049, 5786 Escallonia spp., growing, peat, nutrition, nitrogen 8941 fennel, composition 328 geranium biosynthesis 4747 composition 5496, 5501, 7965, 7989 content 7989 Pyracantha spp., diseases 2310 Eschscholtzia enzyme activity, pollen germination 2213 pollen, germination, enzyme activity 2213 vectors Minettia spp., pear diseases 5787
Pegamya spp., pear diseases 5787
E. aroideae, varietal resistance, tomato diseases 2873 ginger Escontria spp., edible fruits 822 Essential oil composition 7965 volatile constituents 3022 grapefruit, alcohol determination 6369 Acanthospermum hispidum, medicinal E. carotovora Netherlands 2219
lettuce diseases 5915
marrow diseases 1190, 4454 properties 3016 Achillea castilaginea grapefruit seed, constituents, sterols 1510 hop, composition, annual report, German Federal Republic 7087 Inula spp. 7110 bactericidal properties 8005 content, seasonal variations 8005 medicinal properties 8005 A. millefolium 9016 ornamental plants, diseases 3915 seed germination, bean (*Phaseolus*) diseases 8677 jasmine, extraction 5497 Lantana indica, fungicidal properties 6256 A. spp. varietal resistance brussels sprouts diseases 4420 L. spp., composition 1399
Laserpitium hispidum, content 7983 composition 3 3064 cabbage diseases 4420 onion, welsh, diseases 6034 Agathosma spp. 2324 Lavandula spp., composition 7987 lavender 764, 6258 Ageratum conyzoides, composition 9018 Aloysia triphylla 8991
Alpinia officinarium, composition 7965 pineapple diseases 5641 composition, varietal differences E. chrysanthemi breeding and selection 8996 nectar removal by bees 5899 varietal differences 7986 chrysanthemum diseases 4625 Anethum sowa dahlia diseases, annual report, Netherlands 2219 enzyme activity, carnation diseases 4619 saintpaulia diseases 2939 composition 4757–4758
fungicidal properties 6256
Archangelica decurrens, content 8988
Arnica spp 1424
Arnica spp., composition 2353–2354
Artemisia spp., 329
composition 329
Atalantia monosituit 6 composition 4757-4758 quality, breeding and selection 8996 terpenoids 2326 variety trials 4740 E. phytophthora, seed germination, bean (Phaseolus) diseases 8677 lemon, volatile constituents 2412 lemon peel, content, varietal differences E. spp. Atalantia monophylla, fungicidal properties 6256 control, tomato diseases 4022 storage rots, carrot 1308 varietal resistance, watermelon diseases Leptospermum petersonii, Australia avocado, composition 3094 bay laurel 4738 Leucas aspera, fungicidal properties 6256 lime (Citrus), composition 4023
Lindera spp, chemotaxonomy 5498
Lophanthus anisatus, content 7983
Margyricarpus pinnatus, composition 7675 composition 7965

Blumea eriantha, medicinal properties watermelon diseases 2769 E. tracheiphila
varietal resistance 3016 cucumber and gherkin diseases 5218 pumpkin diseases 5218 Calamintha suaveolens 4738 Cananga odorata E. vitivora, planting material, treatment, grapevine diseases 7571 composition, determination 8990 Melaleuca alternifolia, Australia 4737 nutrition, annual report, Sarawak 3933 M. cajeputi, composition 4741 mint 4738 Eryngium spp., propagation, cuttings, root caraway composition 761, 1415, 3027, 3033, 3946–3947, 5499, 6259, 9000 harvesting, time of 6265 irrigation, sprinkler 6264 nitrogen nutrition 6263 potassium nutrition 6263 varietal differences 7081 composition 325 content 8988 cardamoms 327 Erysiphe cichoracearum control begonia diseases 7848 composition, determination 7066 determination 7974 cucumber and gherkin diseases 6820 marrow diseases 7385, 7686 cucumber and gherkin diseases 5206, carrot content 7983 phytoene 2898 5225, 6819 constituents, annual report, USA annual report, German Federal
Republic 7598, 8579
host nucleic acids, biosynthesis, cucumber
and gherkin diseases 8662
mint diseases 336
okra diseases 160, 7757 Catha edulis, content 3072 content 3946 Cedrus atlantica, composition, irrigation, sprinkler 6264 nitrogen nutrition 6263 determination 8990 plant nutrition 6262 potassium nutrition 6263 soil pH 7080 celery, fungicidal properties 6256

Cephalophora aromatica, content 7983 chamomile 2352

Essential oil contd.	Essential oil contd.	Ethylene contd.
mint contd.	terpenes, content 3945	interaction
content contd.	thyme 4738 determination 7991	growth substances, calamondin 8084 light, chlorophyll biosynthesis,
varietal differences 7081	volatile constituents 1414	cucumber and gherkin 2779
wilting 4743 diosphenolene, content 3032	turmeric, determination 7985	internode swelling, pea 4512
extraction 8999	Vepris madagascarica, composition 9007	leaf
insecticides, residues 8997	vetiver, nutrition, annual report, Sarawak	abscission
production 2328	3933	bean (Phaseolus) 2035, 5259
comparative trials, Tasmania 4744	Vetiveria spp., production, economics	peach 2643
production and trade, USA 2327	1417	nucleic acids
terpenes	Zanthoxylum alatum, medicinal properties	biosynthesis, pea 2065
biosynthesis 1412	3016	metabolism, pea 4512
content 1413	Ziziphora afghanica, composition 3949	physiology 3335
Monarda fistulosa	Essential oil plants	pigments, biosynthesis, cabbage 3668
biosynthesis 9001–9002	aroma, latitude 5678	plant, responses, review 5688
composition 9002	Australia 4737	pollen, germination, lily 1363
content 9001	Bulgaria 6257	pollen tube, growth, lily 1363
M. spp. 4745	Italy 6244	production
Myricaceae	light, quality, spectral, latitude 5678	bulb, storage, tulip 3880
chemotaxonomy 9003	photoperiodism, latitude 5678	flower, Cymbidium spp. 6209
composition 9003	seed, oil, biosynthesis 3336	flower abscission layer, <i>Hibiscus</i> spp. 7049
Myrtus spp., terpenes, content, leaf colour 4746	survey, annual report, Sarawak 3933	flower bud, cucumber and gherkin
Nicotiana spp., composition 4644	temperature, latitude 5678	3688
Ocimum canum, fungicidal properties	wild, Crimea 862	fruit
6256	Ethiopia, capsicum, growing 4530	abscission, orange 2406
O. spp., nutrition, annual report, Sarawak	Ethylene	growth substances
3933	biosynthesis 1673, 3335	apple 5003
onion, analysis 1257	apple 6591	chlormequat, apple 1786
orange	protein metabolism, apple 2590	ethephon, cranberry 2691
aldehydes, content 1511	review 5688	storage
content, virus incidence, stubborn	bulb, initiation, onion 2086	avocado 1505
6345	cell	capsicum 8758
extraction 1511	division, inhibition, pea 2065	grapefruit 1505
fungicidal properties 6256	expansion, pea 2066	orange 3152
Origanum glaucum, composition 3949	wall composition, pea 7735	fusaric acid, treatment, tomato 5358
O. majorana, content, varietal differences	wall structure, pea 4512	growth substances
7976	chlorophyll, biosynthesis, cucumber and	ABA, apple 975
O. spp. 4738	gherkin 2779	abscisic acid 1703
pepper, black	concentration	pea, orange 2069
composition varietal differences 1404	bulb, submersion 3837 cutting, flooding 3837	auxins 1703 bean (<i>Phaseolus</i>) 4481
volatile constituents 7069	fruit, submersion 3837	cabbage 8630
content, varietal differences 7978	greenhouse, natural gas burners 1688	Cymbidium spp. 6209
determination 1404, 7066	plant, flooding 3837	cytokinins 1703
medicinal properties 3016	disease resistance, carrot 2141	dahlia 4653
Perovskia spp., composition 3949-3950	enzyme activity	ethephon, olive 2422
philadelphus, production, USSR 7082	plant 1703	GA 1703
pimento, composition 7965	root, carrot 2141	pea, orange 2069
Piper cubeba, composition 7965	sugar cane 4103	IAA, pea, orange 2069
Pogostemon cablin	enzymes, secretion, abscission 448	kinetin, pea, orange 2069
composition, determination 8990	exposure, bulb, bud opening, tulip 3880,	orange fruit 3148
nutrition, annual report, Sarawak 3933	6185	inhibition, growth substances,
terpenes, biosynthesis 3036	flower, senescence, rose 2297, 3922	cycloheximide, bean (<i>Phaseolus</i>)
Polyalthia longifolia	fruit	4483
fungicidal properties 6256	abscission	leaf, abscission, orange 2406
medicinal properties 3016	calamondin 8084	photoperiodism
Poterium polygamum, content 7983 review 8973, 8989	citrus 2405, 3146 orange 4009	cucumber and gherkin 3688 dahlia 4653
Rosa spp., composition 4714	peach 2643	picloram, treatment, tomato 5358
rose 764	colour, citrus 2410	plastic bags, coloured 898
biosynthesis 4747	degreening	red light, cabbage 8630
content	mandarin and tangerine 4810	respiration
climate 7990 .	orange 4810	fruit 383
irradiation 5471	dehiscence	apple 56
plant nutrition 3952	okra 7465	seed, germination, lettuce 1977
temperature 5471	pecan 7465	seedling, development, pea 1235
water relations 3952	development, Ficus sycomorus 2636	stress-induced, bean (Phaseolus) 448
phosphorus, placement 3951	pigments	7720
terpenes 9004	orange 4814	stressed branches
rosemary 4738	tangelo 4814	apple 911
determination 3024	ripening	peach 911
Ruta spp. biosynthesis, tissue culture 9051	apricot 8428	proteins
composition 8037	annual report, Australia 8313 banana 3178	biosynthesis fig 1008
tissue culture, light 9051	Ficus sycomorus 2636	fig 1008 fruit, abscission 448
Salmalia malabarica 1438	fig 1008	removal
Salvia grandiflora 4738	grapevine, report, Australia 6712	storage
S. sclarea 3037	pear 5791	controlled atmosphere
S. spp.	tropical fruits 4045	apple 981
content	geotropic responses, pea 2059	avocado 1464
seed treatment 3026	growth substances, translocation, pea	review 1704
soil moisture 6269	2059	root, development, pea 2821
Sanguisorba spp., content 7983	horticultural uses, review 5688	seed, germination, lettuce 6788
Satureia spp. 329	injury	senescence regulation, abscission 448
composition 329	chrysanthemum 6132	symposium 3335
secondary, production, methods, 2322	epinasty, tomato 5358	treatment
Solidago virga-aurea, content 7983	flower bud, tulip 3880, 7909	apple, annual report, Australia 901
Spartium junceum, content 7983 spice oils, composition, determination	ornamental plants 6132	bulb
7066	petunia, annual report, Netherlands 6961	respiration, iris 2245
tagetes, content 7983	prevention, greenhouse crops 8304	tulip 6185 cut flowers, carnation 2924
	provident brothing of the control	out noncis, camation 2727

Ethylene contd.	Euphorbia fulgens contd.	Fenugreek contd.
treatment contd.	flower, cut, production, programmes	enzyme activity
cuttings, Sedum spp. 5456	.6237.	growth substances, cytokinins 3977
flower, sex, cucumber and gherkin 5968	growth substances dwarfing	light 3977 seed, germination 5537
fruit	aminozide 6237	glycosides 3087
limonin, content, orange 5576	chlormequat 6237	light, enzyme activity, cotyledons, growth
tomato 6103	responses, chlormequat 8842	substances 3977
pea 222–223	photoperiodism, flowering 6237	nucleic acids, metabolism 8044
plant, anthocyanins, biosynthesis, cabbage 8630	temperature, flowering 6237 E. spp., as weeds, oil palm 1601	sapogenins, determination 4777 tissue culture
root	E. spp., as weeds, sugar cane 7235	alkaloids, production 4778
lignin, biosynthesis, swede 5934	E. tinctoria, plant, composition 1450	seed callus
phenolic acid, biosynthesis, swede 5934	Euphoria longana, diseases, witches' broom virus 3163	media 4778 vitamin B, treatment 4778
seed, lettuce, carbon dioxide presence	Eupithecia spp., mango pests 4065	Fenugreek growth substances
1154	Eupoecilia ambiguella, grapevine pests	enzyme activity, cotyledons, cytokinins
shoot abscission, bean (Phaseolus)	4351	3977
6854 trunk, trees and shrubs 2979	Eupterote spp., coffee pests 1582 Eutetranychus buxi, chlorophyll	nucleic acids, biosynthesis, kinetin 4776 Fenugreek seed
xylem formation, pea 4511	degradation, aspidistra pests 741	carbohydrates, metabolism, enzyme
Etiella zinckenella, Tephrosia spp., pests	Eutetranychus orientalis, predators, citrus	activity 3053
Fued writing as an arramental plant appual	pests 1488–1489	endosperm, dissolution 3976
Fucalyptus, as an ornamental plant, annual report, Irish Republic 2909	Eutypa armeniacae, apricot diseases 63, 3437	sapogenins 5537 content, storage 3088
Eucalyptus citriodora, essential oil,	Euxanthis hamana, forecasting, light traps	storage, sapogenins, content 3088
composition 3030	1764	Ferns
E, fruticetorum	Euzophera semifuneralis, peach pests 3477	annual report, USA 8834
essential oil composition 7077	Evergestis forficalis, cabbage pests 5195 Evodia daniellii, plant, composition 2359	insecticides, tolerance, annual report, Austria 265
content 7077	Exacum spp., growing, as pot plants, annual	pests, annual report, USA 1441, 6129
growing, Argentina 7077	report, Canada 8836	as weeds
E. spp. essential oil	Exobasidium spp.	pineapple 8172 rubber 4881
Australia 4737	azalea diseases, annual report, Belgium 8835	Feronia elephantum, coumarins 4767
composition 3029	host anatomy, rhododendron diseases	Fertilizers
content 3029	.8948	algae
growing, incontainers, root, growth control 7847	host-pathogen relationships, growth substances, rhododendron diseases	enzyme activity, tomato nutrition 6098 fruit, ascorbic acid, content, tomato
planting	8948	nutrition 6098
root pruning 3007	Exobasidium vexans	leaf, ascorbic acid, content, tomato
time 3007	control, tea diseases 8272–8273	nutrition 6098
seedling, nursery treatment 3007 Eucharis grandiflora	tea diseases annual report	application compressed tablets, rose, annual report,
flower, bud initiation, temperature 8909	India 1657	USA 6129
flowering, temperature 8909	Sri Lanka 8262	equipment 2511, 4131
temperature	Fabiana imbricata	foam 4915
flower bud, initiation 8909 flowering 8909	plant, composition 2360 quinones, content 2360	frigation apple 947, 3394
Eugenia cumini i, growth studies 9284	Fagara spp., alkaloids, content 2361	container-grown plants, annual
E. cuminii, pollen, germination, media	F. zanthoxyloides, root, extracts, medicinal	report, UK 3834
2482 E. henyana, essential oil, fungicidal	properties 774 Fats	lily 3869 methods compared, lily 3869
properties 6256	content	under plastic mulches, rose, annual
E. jambolana, flavonoids, content, flower	fruit	report, USA 6129
9285	berry fruits 101	plastic perforated sachets, rose, annual
E. spp. growing, tropical America 377	Guilielma gasipaes 7272 seed, berry fruits 101	report, USA 6129 soil injection, aqueous ammonia,
leaf, anatomy 2483	Fatty acids	brussels sprouts, annual report, UK
Eulecanium coryli, peach pests 3476	content	1937
Eumarchalia gennadii, biological control,	seed, stone fruits 8424 walnut, nut 5069	distillery effluent, sugarcane 1625
carob pests, annual report, Cyprus 3980 Eumerus strigatus	determination, ion exchange	-herbicides mixtures 1682
bulbs, pests 7905	chromatography, cacao bean 9144	liquid
narcissus pests 7905	Feijoa	container-grown plants 2170
E. tuberculatus bulbs, pests 7905	growing, tropical America 377 iodine, content, fruit 7163	cucumber and gherkin 5950 geranium 6983
narcissus pests 7905	storage, fruit, composition 3162	greenhouse crops 4132
Eumossula gracilis, biological control,	Feijoa fruit, amino acids, content 3162	peat, begonia 6166
coconut pests 9158 Euonymus europaeus	Feijoa propagation, annual report, USA 2375	spinach beet 5904 oil palm debris ash, oil palm 9190
alkaloids 7955, 8961	Feijoa seed, treatment, gamma rays 8109	placement
seed, alkaloids 7954	Feltia subterranea, cabbage pests, annual	depth, apple 946
Euonymus growth substances	report, USA 4367	methods compared, root growth, apple 8377
endogenous, leaf, senescence 3718 translocation, heteroauxin 1320	Fennel aroma, latitude 5678	planting trenches, apple 7350
Euonymus leaf	bibliography 8975	seed drills, Rosa spp. 2993
abscission, growth substances, endogenous	essential oil, composition 328	sugar cane, annual report, USA 9221
3718 anthocyanins 744	growing media, compared 7605	seaweed preparations 5098 apricot 4265
phenolic compounds 744	peat 7605	peach 4265
Euonymus propagation, cuttings, media	insecticides	sewage sludge, vegetables, annual report,
708 Funnymus snn propagation cuttings media	residues	UK 3613
Euonymus spp., propagation, cuttings, media 8845	plant dimethoate 326	slow-release anthurium 7877
Eupatorium odorata, as weeds, control by,	methyl-parathion 2320	azalea nutrition 6224
Tephrosia purpurea, coconut 8140	Fennel flower, sex, growth substances, 2,4-	begonia 6964
E. spp., plant, composition, eupatolide 6282	dichlorophenoxybutyric acid 1407 Fennel growth substances, flower, sex, 2,4-	chrysanthemum nutrition 1332 container-grown plants, annual report,
E. stoechadosmum, alkaloids, determination	dichlorophenoxybutyric acid 1407	UK 3834
4766	Fenugreek	cyclamen 2227, 6964
Euphorbia fulgens dwarfing, growth substances 6237	alkaloids, production, tissue culture 4778 bibliography 8975	geranium 6983 lily 3869
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0		-1.7

1000		
Fertilizers contd.	Fig diseases contd.	Flower contd.
slow-release contd.	Botrytis cinerea contd.	colour
nursery stock, annual report, UK	fruit storage 1010 Cladosporium sicophilum 8450	genetics, stock 285 latitude, ornamental plants 5678
6128 peat, begonia 6166	Fusarium moniliforme 8450	seed, treatment, carnation 268
petunia nutrition 1342	Mucor spp., fruit storage 1010	development, Plumbago spp. 323
poinsettia 2282, 2984	Penicillium spp., fruit storage 1010	extracts, taxonomic studies, Aesculus spp.
pot plants 6964	Rhizopus spp., fruit storage 1010	8957
roadside plants 3908 spinach beet 5904	various, control 8450 yeasts 8450	insect attraction, pigments, rudbeckia 5415
sugar cane 4092	Fig fruit	nectar, sugars 5541
annual report, USA 9221	proteins, content 4941	opening, mechanism, squash 2007
tomato 7785 sugar cane filter cake 5659	quality, growth substances, ethephon 1812	pigments analytical methods, <i>Tagetes</i> spp. 286
sulphur-coated, watermelon 3683	ripening	chrysanthemum, annual report, UK
town compost, grapevine 1911, 5847	growth substances, ethephon 1812,	3832
Ferula jaeschkeana, terpenes 9039 Festuca pratensis	3455 oil treatment 1009	development, <i>Impatiens</i> spp. 284 ornamental plants, annual report,
lawns and sports turf	proteins, biosynthesis 1008	Belgium 5386
breeding and selection, disease	Fig growth substances	removal
resistance 6195	fruit quality, ethephon 1812	chemical, strawberry 8519–8520
tillering, seed sowing, methods 6192 F. rubra, lawns and sports turf, Finland	ripening, ethephon 1812, 3455	for later cropping, strawberry 8519–8520
7020	injury, ethephon 1812	senescence, growth substances, abscisic
F. rubra	proteins, biosynthesis, ethephon 1008	acid, rose 3922
as a cover crop, peach 7452 overseeding, lawns and sports turf 2264	Fig leaf abscission, growth substances, ethephon	sex, nitrogen, cucumber and gherkin 166 Flowering
seed, production 3896	1812	cold treatment, freesia 7897
F. spp.	injury, growth substances, ethephon	date
diseases Puccinia coronata 5449	1812	bulb, storage temperature, narcissus 3872
Spermopora subulata, annual report,	temperature, photosynthesis 7325 Fig pests	Cymbidium spp. 7937
Canada 3882	Ficivora leucoteles, biological control 73	forecasting
grasses, lawns and sports turf, weed	mites 72	temperature, apple 2592
control 738 lawns 2967	predacious 72 nematodes 1007	temperature sums apple 2593
lawns and sports turf	various, vectors, diseases, unspecified	fruit trees and plants 2379
breeding and selection 3884	8450	plant nutrition, tomato 8773
car parks 7919 irrigation, requirements 8915	Fig propagation budding, chip budding 1007	temperature, <i>Cymbidium</i> spp. 7937 light
mowing, population studies 8916	cuttings 8449	intensity
nitrogen nutrition, population studies	grafting 1007	alstroemeria 7875
8916	Fig rootstocks, Ficus spp. 1007	peach 3491
tree root competition 303 variety trials 7021, 7918	Fig varieties, USSR 7438 Finland	pear 3491 supplementary
weed incidence 8915	bedding plants, growing 8843	alstroemeria 7875
orchard tracks 3890	cineraria, growing 8843	carnation 3839
roadsides, establishment 3888 weeds, lawns and sports turf 5443	petunia, growing 8843 pot plants, growing 8843	phosphorus nutrition, apple 7368 photoperiodism
Fibre plants, Indonesia 1674	Fiorinia fioriniae, biological control,	alstroemeria 7875
Ficivora leucoteles, parasites, Dasylagon	avocado pests 3983	holly 6215
aegeriae, fig pests 73	Fire-breaks, weed control, sugar cane 6434 Flammigeroidia flammigera, population	Zygocactus spp. 7028
annual report, Irish Republic 2909	studies, fruit trees and plants, pests	precosity, trees and shrubs 5689 secondary
diseases	8326	pecan 1038
Classification 788	Flavonoids	photoperiodism
Gloeosporium elasticae 788 growth, studies 5454	content flower	holly 6215 strawberry 3555
nutrition	Eugenia jambolana 9285	prevention, orange 8092
magnesium, annual report, USA 8834	statice 8877	walnut 2664
potassium, annual report, USA 8834 potassium, annual report, USA 8834	plant, Echinoideae 4727 shoot, leaf, seasonal variations, <i>Pyrus</i>	Flowers, cut air pollution, sulphur dioxide, ethylene,
pests, Aphelenchoides besseyi 2270	spp. 6646	injury 6132
F. spp.	plant sources, India 7065	annual report, Belgium 5386
cytology 1378 growth substances, translocation,	Flemingia chappar, flavonoids 6245 F. congesta, as a cover crop, oil palm 7209	deterioration, review 1327 ethylene treatment, carnation 2924, 462
heteroauxin 1320	F. rhodocarpa, flavonoids 6245	fluorine
pests, Mycetaspis personatus, population	F. spp., ground cover plants, coffee 7190	injury
studies 811 F. sycomorus	Flooding leaf	gladiolus 7006
fruit	composition	tap water 2913 grading
development, ethylene 2636	sugar cane 2474, 8200	annual report, Netherlands 1314
ripening 1811	tomato 2474	economics, rose 749
ethylene 2636 growth substances 2636	root systems, sugar cane 8253 varietal tolerance	mechanical, rose 6232 harvesting in bud, chrysanthemum 8866
wounding 2636	grapevine 5848	keeping quality, nutrition, rose 748
growth substances, fruit, ripening,	sugar cane 8253	nitrogen, metabolism, rose 3924
ethephon 1811, 2636 Fig	Flora Isles of Scilly, book 861	opening aladialus 7001
enzyme activity, fruit, proteins,	UK 434	preservatives, gladiolus 7901 treatment
biosynthesis 1008	Flower	chrysanthemum 4631
growing, Venezuela 8119	bud initiation	growth substances, Aadural-AK 71
light, intensity, photosynthesis 7325 organic acids, content, seasonal variations	carbon dioxide, rose 3920 chilling requirements, olive 818	8-hydroxyquinoline citrate, chrysanthemum 8866
4163	chromatin, activity, <i>Ipomoea</i> spp.	packing
photosynthesis 7325	3849	cooling, carnation 6969
proteins, biosynthesis, growth substances, ethephon 1008	light, <i>Pharbitis</i> spp. 3848 nitrogen, application, irrigation, apple	methods compared gladiolus 7901
storage, cold, disease incidence 1010	947	methods compared, gladiolus 7901 pest control, post-harvest treatment,
Fig diseases	nucleic acids	chrysanthemum 6976
Alternaria fici 8450 A. tenuis, fruit storage 1010	biosynthesis, <i>Ipomoea</i> spp. 3849	preservatives 1327, 2997
Botrytis cinerea 8450	photoperiodism, mustard 331, 333	Chrysanthemum maximum 6979
		/

Subject Index		100
Flowers, cut contd.	Fomes lignosus contd.	Freesia contd.
preservatives contd.	rubber diseases, annual report, France	cold treatment, flowering 7897
erigeron 6979	3250	flowering
floret opening, gladiolus 7901 fluorine injury mitigation 2913	tea diseases, annual report, Sri Lanka 8262	cold treatment 7897 date, planting depth 3867
growth substances	F. noxius, tea diseases, annual report, Sri	fluorine
abscisic acid, rose 2301	Lanka 8262	toxicity 7003
ancymidol, tulip 3879	F. spp., coffee diseases 4057	disease symptom intensification
benzothiadiazole, carnation, annual	Forcing	7003
report, USA 3835	azalea, annual report, Netherlands 4604	forcing 2234, 6165
Phosphon, tulip 3879	capsicum	nutrition 2235
rose 7950	light, supplementary 2096	hybrids, comparative trials 7896
8-hydroxyquinoline citrate, gladiolus	media compared 2096	nutrient absorption 2234
7006	chicory annual report, UK 6774	planting, depth, flowering date 3867 temperature
larkspur 6161	economics 3639	corm, development 8891
nutrients, rose 3924	irrigation, capillary 1151	nutrient absorption 2234
perennial flowers 4611	methods compared 3639	responses 7898
sugars, rose 7950 production	soilless culture 5177	Freesia corm, development, temperature
dahlia 7894	Cymbidium spp., chilling requirements	8891
economics	7937	Freesia diseases Botrytis gladiolorum 2236
Aalsmeer 705, 4608	forsythia, economics, annual report, Netherlands 6126	leaf necrosis, synergism, fluorine 7003
annual report, USA 3835	freesia 2234	Freesia flower
Lobelia fulgens 2215	nutrition 2235	cut
Norway 5387	iris 1359	fluorine injury, tap water 2913
programmes	media compared, annual report, UK	preservatives, fluorine injury mitigation
Euphorbia fulgens 6237	8838	2913
rose 6231 senescence	narcissus annual report, UK 733	Freesia nutrition 2233 annual report, Netherlands 6962
ammonia, content, rose 3924	bulb, storage temperature 3872, 4663	general
respiration, carnation 7852	Prunus triloba, annual report, Netherlands	deficiency symptoms 2233
rose 2297, 3922	6127	salinity damage 2233
sugars, content, carnation 7852	rhubarb	NPK 2234
storage, carnation 2182	chilling requirements 7759	placement 2235
transport, vacuum cooling 2164	dormancy 7759	phosphorus, sources, fluorine toxicity
vase life anthurium 6158	strawberry annual report	Freesia propagation, tissue culture 2232
carnation 4621	Belgium 1060	Freesia seed
chrysanthemum 718	Netherlands 1068, 6670	composition 2943
narcissus 4664	chilling requirements 3553	oil 2943
perennial flowers 4611	dormancy 3553	Freesia soil, fumigation, methyl bromide,
rose 7950	light 5820	plant composition, bromine 5394
water relations 1327 xylem blockage 2997	tunnels 3554 heating 2696	Freesia varieties comparative trials 7896
Flowers, wild	tulip 1365	fluorine, toxicity, resistance 7003
flora, UK 434	annual report, UK 733, 3874, 7907	French West Indies, vegetables, a new
Isles of Scilly, book 861	bulb, storage temperature 3875, 4663	journal 5668
Fluorine	chilling requirements 7913	Fritillaria spp.
application	growth substances 8907	growing 5440
fruit composition, peach 5767	labour requirements 7016 plunging under straw 6184	as an ornamental plant 4668 photosynthates, translocation 2964-296
firmpess, peach 5767	pre-cooling 1366	seed, sugars, content 8883
ripening, peach 5767	injury 2954–2955	tuliposides 8908
content	temperature 8907	USŜR 4668
leaf, tea 6465	vegetables, plastic films, annual report,	Frost (see also Cold; Winter hardiness)
plant, air pollution, annual report,	Netherlands 8581	damaged plants
German Federal Republic 6481 determination, sugar cane 4089	Forcipomyia spp., pollinator, cacao 2445, 5612	pruning and training cherry 2622
tap water, content, injury, flowers 2913	Forficula auricularia, biological control of,	grapevine 1098
toxicity 4130	Aegeria myopaeformis 3409	forecasting
calcium nutrition, tomato 6932	Forsythia	fruit trees and plants 1709
cut flowers, gladiolus 7006	breeding and selection, annual report,	techniques, annual report, USA 790
cuttings, irrigation water, Cordyline	Netherlands 4604	injury
spp. 7025 disease symptom intensification, freesia	forcing, economics, annual report, Netherlands 6126	apricot 8425 bark, apple 2556
7003	growing	bud developent
fertilizer impurity, freesia, annual	containers 2917	apple 1709
report, Netherlands 6126	in containers, media 4689	apricot 1709
freesia 7003	potting composts, bark 2276	cherry 1709
annual report, Netherlands	Forsythia flower, cut, fluorine injury, tap	peach 1709
6961–6962 gladiolus, annual report, USA 8834	water 2913 Forsythia growth substances, retardants,	pear 1709 plum 1709
leaf pigmentation, apple nutrition 5015	chlormequat 6212	chloroplast, damage, light, cucumber
leaf pigments content, coleus 8922	Forsythia propagation, cuttings 2917	and gherkin 2003
pea 3735	Fouquieria spp., flower, composition 780	critical temperatures, fruit trees and
phosphorus nutrition, freesia 2233	Fragaria spp., root, cation exchange capacity	plants 4158-4159
plant tolerance, ornamental trees and	4144	disease incidence
shrubs 7845	Frames	cabbage 146
seed germination, enzyme activity, pea 6866	crop rotation, vegetables 2737 plastic, mulching, strawberry, annual	Pseudomonas pisi, pea 4503 flower bud
soft suture, peach 5767	report, USA 1440, 5078	apricot 4235
transpiration, pea 3735	propagating, trees and shrubs 6134	cherry 4235
Foam	ventilation	development
frost protection	air temperature 2738	plum 4290
strawberry 8768	soil temperature 2738	Prunus spp. 4290
tomato 8768 horticultural uses 4915	Frankliniella cubensis, mango pests 4065 Freesia	initiation, cranberry 534
Folic acid, content, fruit, citrus 4816	annual report	peach 4235 frequency, topography 876
Fomes lignosus	Netherlands 704, 6126, 6961	fruit
host reactions, rubber diseases 5645	UK 3832	apple 964
planting site, preparation, rubber diseases	bromine, content, soil, fumigation, methyl	annual report, Australia 5693
7223	bromide 5394	leaf, removal, apricot 5756

Frost contd.	Frost contd.	Fruit contd.
injury contd.	resistance contd.	detachment force, measurement, tomato,
measurement, apple 6539	flower bud development	annual report, USA 4368
petiole, ice formation, saintpaulia 2935	nectarine 7440	drying 22
plant nutrition, ornamental plants,	peach 7440	flavour
annual report, USA 1441, 6129	fruit set, grapevine, annual report,	evaluation, methods, banana 4837
position on slope, grapevine 5112	Czechoslovakia 6713	storage, box preservatives, annual
pruning and training, time of, apple	growth substances, apple 8399	report, USA 3348
8362	hardening, respiration, pea 654	irradiation
recovery, grapevine 7559	herbicides, dichlobenil, peach 1819	gamma rays
root	irrigation, sugar cane 9233	post-harvest
apple 2554	light, black currant 4310, 6671	avocado 1462
cherry 2554, 2622	Malus spp. 4187	mango 1596
grapevine, annual report, German	nitrogen	maturity
Federal Republic 6669	content citrus 3131	colour chart, tomato 2853 indices, pear 3497
strawberry 2554 seed, rose 2991	Citrus junos 3131	tests
shoot	nitrogen nutrition, black currant 8485	apple 1789–1790
apple 2587	phosphorus nutrition, black currant	annual report, USA 24
cell water relations, apple 7397	8485	peach 5777
cherry 6617	photoperiodism, black currant 4310,	pear 1789-1790
ice formation	6671	parthenocarpy
azalea 5019	plant nutrition	growth substances
cherry 5019	apple 4971	DPX 1840, cucumber and gherkin
mechanism, apple 7353	strawberry, annual report, Canada	5968
slope orientation, grapevine 5112	538	endogenous, photoperiodism,
sucrose, content, sugar cane 9232	polyploids, citrus 7129	blueberry 3530
thawing rate, grapevine 4342	potassium nutrition, apple 4974	pigments
trunk, apple 8351	proteins, content, grapevine 1927 protoplasmic properties, varietal	biosynthesis, temperature, grapevine 3595
occurrence, water, temperature above 876	differences, grapevine 8539	content
protection	pruning and training, grapevine 5110	apple 58
apple, annual report, UK 8317	redox regime, grapevine 3590	blueberry 1065
calcium chloride 5924	respiration	pear 58
cherry, annual report, USA 8319	plum 7477	disorder incidence, apple 6594
citrus, annual report, USA 790	Prunus spp. 7477	fruit trees and plants 5691
covers	rootstock compatibility, apple 2555	quality
plastic, mandarin and tangerine	rootstock-scion relationships	assessment, optical density 3434
7130	apple 3392, 8351	evaluation
pruning and training, lemon 3110	cherry 2622	apple 488
dimethylsulphoxide 5924	shoot temperature, grapevine 5835	mandarin and tangerine 6365
earthing-up, grapevine 7559	soil management, methods compared,	methods, banana 4837
flowering date	apple 6538	removal force, measurement 893 ripening 897
growth substances cherry 8432	soil type, moisture holding capacity 876	growth substances, ethephon, tropical
tung 4828	stem tissues, variability, apple 2587	fruits 4045
foam	testing	oil treatment, fig 1009
strawberry 8768	electrical conductivity	propylene treatment, ethylene,
tomato 8768	fruit trees 4994	production 383
fogging, citrus 5550	grapevine 6726	respiration, ethylene, production, apple
fruit trees and plants 1709	trees and shrubs 2158	56
glycerol 5924	annual report, Canada 2154	root, composition, grapevine 1123
heaters	varietal resistance, apple 6528	sampling, methods 1679
peach 28	varieties	senescence 5690
annual report, USA 451 pear 28	apple 4187 apricot 7420	set, time from flowering, varietal differences, India, capsicum 6045
irrigation, management, mist occurrence	France	size, seed, number per fruit, orange 480
876	berberis 2158	skin, structure, apple, annual report, UK
plastic films	cotoneaster 2158	903
apple 3358	pyracantha 2158	storage, controlled atmosphere, systems,
peach 3358	sugar cane 9233	nitrogen addition 3361
plastic water-filled mattress, vegetables,	USSR, cherry 8430	sugars, determination, methods compared
annual report, Netherlands 8581	water content, grapevine 5111, 8566	tomato 2137
soil management techniques, in relation	water relations	thinning
to standing water 876	apple 6574	mechanical, shaker, plum 524
sprinkler irrigation, tunnels, bean (<i>Phaseolus</i>) 2016	Prunus spp. 7061 studies, artificial freezing techniques, apple	tree fruits, annual report, Australia 450
sucrose 5924	7396	transport
temperature data	Fruit	chutes, grapevine 4358
avocado 6335	abscission	pallets, high density planting 3362
citrus 6335	growth substances, ethephon, cherry	wax, structure, cherry 2618
white paint, apple 933	2631	Fruit trees and plants
wind machines, citrus 5549	symposium 448	air pollution
resistance	abscission layer	injury
ascorbic acid, content, cherry 2627	anatomy, cherry 501	peroxyacetyl nitrate, nitrogen oxides
breeding and selection, citrus 3106	composition, cherry 499	4130
bud dormancy, grapevine, annual	enzyme activity, citrus 2405, 3146	plant responses 3306
report, Czechoslovakia 6713 carbohydrates	histochemistry, cherry 2631	photochemical oxidants 3306
content	histology, cherry 501 acidity, reduction, chemicals, calamondin	amino acids, content 449 annual report
citrus 3131	4021	Belgium 902
Citrus junos 3131	cracking	Canada 5695
grapevine 1929	anti-transpirants, cherry 4239	Italy 6507
rose 338	pericarp, morphology, tomato 2128	UK 867
metabolism, apple 6580	stomata, water absorption, cherry	bark, temperature, measurement, annual
cell sap concentration, grapevine 5110	3445	report, USA 3357
dormancy, black current 6671	temperature, cherry 3443	bud
drought resistance, peach 7444	varietal resistance cherry 3444	temperature, measurement, annual
electrical conductivity, fruit trees 4994 enzyme activity	cuticle, structure, cherry 2618	report, USA 3357
grapevine 5138	degreening ethylene	terminology 4154 climate
plum 7477	mandarin and tangerine 4810	microclimate 1708
Prunus spp. 7477	orange 4810	control, annual report, USA 3357

Subject Index		1003
Fruit trees and plants contd.	Fruit trees and plants contd.	Fruit trees and plants contd.
clones, review 7290	irrigation contd.	pruning and training
cold, protection, white paint 1730 cover crops	water composition	annual report, Belgium 4942 book 2527
annual report, Belgium 4942	boron 5163	historical survey 4161
comparative trials 1711	chlorine 5163	palmette 5704
Agrobacterium rhizogenes 7318	sodium 5163 leaf analysis, review 7369	book 6513 slender spindle 5704
A. tumefaciens 7318	light	translocation disruption 910
book 1689, 6517	intensity	wound dressings 8327
control, France 4138 Erwinia amylovora 6644	flowering 1708 fruit	replanting 6551 research
German Democratic Republic 1691	colour 1708	Poland 6520
mycoplasma, review 890	size 1708	Yugoslavia 2519
Phyllosticta prunicola 6657	magnesium, content, plant, fruiting 5705	root, systems, study methods, book 1 soil
Phytophthora cinnamomi 7318 Rossellinia necatrix 7318	mercury, determination 3315 meteorology 1708	cultivation, machines 7317
Sclerotium rolfsii 7318	mulching, peat 4190	erosion, control 3310, 8325 magnesium, availability 866
virus, review 1715	mutants, induction, review 2492	nitrogen, availability 866
disorders book 1689	nitrogen, content, plant, fruiting 5705 nutrients, content, fruiting 5705	nutrients, disorder incidence, chlorosis
chlorosis 7319	nutrition 881, 4121	7319 phosphorus, availability 866
iron deficiency 1714	annual report	potassium, availability 866
rosetting 913–914	Belgium 4942	requirements, Crimea 453
drought 8285 dwarf, for experimental work 869	Canada 5694 bismuth, leaf analysis, standards 2496	spraying equipment, low-volume 7323
flower, development, phosphorus nutrition	boron	low volume, annual report, Belgium
5705	chlorosis 7319	4942
flowering, climate 1708	deficiency 6499 fertilizers, application, trenches 8325	sulphur dioxide, injury 4130 temperature
fluorine, toxicity 4130 frost	general	measurement, microclimate, annual
forecasting 1709	colloquium 6479 deficiency	report, USA 3357 modification apparatus 906
protection 1708–1709	control measures 881	varieties
heaters, annual report, USA 3357 fruit	diagnosis 881	Hungary, book 3355
colour, light, intensity 1708	leaf analysis 5681 iron 1714	National Fruit Trials, UK, history 3351
coumarins, content 8446	chlorosis 7319	register 3353
metabolism, potassium 5705	leaf analysis, standards 2496	Canada 5670
packing 8312 size, light, intensity 1708	lead, leaf analysis, standards 2496 magnesium, application, methods	USA 5670 virus-tested plants, nursery stock, France
storage, annual report, Belgium 4942	compared 866	2524
sugars 5541	nickel, leaf analysis, standards 2496	water relations, climate 1708
thinning, annual report, Belgium 4942 transport 8312	nitrogen, review 4162 phosphorus, flower, development 5705	weed control 909, 1681, 1712, 4924, 5680
fungicides 3316	zinc, application, foliar 913	Glechoma spp. 909
application, general, adjuvants 5686	orchard renewal, methods compared 4157	windbreaks 7315 wound dressings 8327
residues, determination, benomyl 3327 growing	ozone, injury 4130	wound healing, growth substances 8327
book 900, 6472, 6476	pests	yield, estimation, annual report, Belgium
Kazakhstan 2514 book 2513	Arvicola terrestris, control 8306 biological control, Bacillus thuringiensis	4942 Fruiting
mechanization 2511	447	date
Northern Caucasus, symposium	Caliroa cerasi, biological control 31 control, France 4138	forecasting, temperature sums, fruit
5700–5701 Rumania 4151	German Democratic Republic 1691	trees and plants 2379 plant nutrition, tomato 8773
student's manual 436	integrated control, review 912	Fruits, edible, unusual, book 435
USSR 2521 Yugoslavia 2520, 2522	leafhoppers, survey 8326 Meloidogyne arenaria 4931	Fuchsia flower, cation exchange capacity, composition 7874
growth chambers	M. incognita 4931	Fuchsia growth substances
construction 4152	Quadraspidiotus perniciosus 1759,	responses, chlormequat 8842
operation 4152 growth studies 1713	tortricids, light traps 1764	retardants, Pydanon 2163 Fuchsia pests
growth substances	voles 8306	Trialeurodes vaporariorum
responses	annual report, German Federal Republic 6505	annual report, UK 6128 control 7956
aminozide 8328 chlormequat 8328	control 8306	Fuchsia plant, cation exchange capacity,
ethephon 8328	phosphorus, content, plant, fruiting 5705	composition 7874
GA 4148 morphactins 8328	plant, morphology, review 5705 planting	Fuchsia spp., taxonomy 266 Fulvic acid, pectins, content, tomato 6072
TIBA 8328	high density, light interception 1710,	Fumaria indica, alkaloids, content 1451
wound healing	2558	F. officinalis
IAA 8327 IBA 8327	mechanical 6516 systems, light interception 1708, 2558	alkaloids 8023 growing, USSR 8023
hail, damage, prevention, chemical	potassium	Fumigation
treatment of clouds 3393	content, plant, fruiting 5705	cuttings, methyl bromide, rhododendron
harvesting mechanical	fruit, metabolism 5705 production and trade, UK 4120	747 fruit
catching frames 2531	products and by-products	2-amino butane, apple storage 990
equipment 8331	canned fruit, review, UK 4120	ethyl formate, date storage 813
review 1717 mobile platform 1716	juice, review, UK 4120 wine, review, UK 4120	ethylene dibromide ethylene production 3152
herbicides, residues, determination, 2,4-D	propagation	residues 3152
6514 Indonesia 1674	grafting compatibility studies, tissue culture	hydrogen phosphide, date storage 813 soil
insecticides	3567	chloropicrin, <i>Phytophthora</i> spp.,
residues	mechanical, equipment 4179	raspberry 5087
plant 4141 tamaron 4143	methods, tropics 875 union, incompatibility, detection	DBCP, <i>Phytophthora</i> spp., raspberry 5087
irrigation 3308	6509	DD
sprinkler 2526	nursery stock, production, economics 5702	disease control citrus 4787
trickle 1046	3102	CILIUS TIOI

Fumigation contd.	Fungicides contd.	Fungicides contd.
soil contd.	benomyl contd.	Ceresan, injury, prevention, Aechmea spp.
DD contd.	injury contd.	4673
disease control contd.	melon (cantaloup and musk) 5965	chinosol, injury, grapevine 7553
strawberry 3547	mushroom 3829	chloroneb, synergism, seed treatment, pea
pest control, citrus 4787	annual report, UK 6773	7731
Phytophthora spp., raspberry 5087	pot plants 5393	chlorothalonil, injury, chrysanthemum
Di-Trapex, disease control, bedding	strawberry 1073	6973
plants 2206	Tagetes spp. 1146	copper
1,3-D, <i>Phytophthora</i> spp., raspberry	insect control, chrysanthemum 6973	disease control, review 1694
5087	metabolism	injury, guava 4063
methyl bromide	carnation 715	residues
disease control	pea 655	leaf, coffee 2451
anemone 2221	mite control	plant, marrow 1190
bedding plants 2206	Cecidophyopsis ribis, black currant	copper compounds, synergism,
Phytophthora spp., raspberry 5087 residues	4309	insecticides, annual report, India
ornamental plants 5394	chrysanthemum 6973	1657
plant, lettuce 2755	mycoplasma control, Santalum spp.	copper oxychloride, injury, currants
soil, lettuce 2755	3038	4308
methyl isothiocyanate	nut, set, pecan 8473	CTP-Cu, application, surfactants, onion
disease control	ozone, injury, prevention, bean	6875
anemone 2221	(<i>Phaseolus</i>) 1210, 6840	DCNA, residues, fruit, peach 5780
strawberry 3547	persistence	Dealan, persistence 1748
propargyl bromide, <i>Phytophthora</i> spp.,	carnation 715	Dexon, plant, height, chrysanthemum
raspberry 5087	orange 9099	6146
Vapam, disease control, anemone 2221	soil 1146	dichlofluanid
Fungi, edible species 2907, 6122 (see also	strawberry, annual report, UK 7489	injury, strawberry 547, 1073
Mushroom)	plant, responses, melon (cantaloup and	residues
Agaricus arvensis 6958	musk) 5965	fruit
A. augustus 6958	residues	raspberry, annual report, UK 7489
A. bitorquis 6958	determination 6501, 7301	strawberry 1073
A. edulis 6958	apple 7609 fruit trees and plants 3327	dichlozoline
Boletus edulis 6958 Collybia velutipes 7842	mushroom 7609	persistence, lettuce 7633
Lentinus edodes 6958	strawberry 7609	residues
Lepista nuda 6958	vegetables 3327, 7609	determination 8590
Pholiota mutabilis 6958	flower, apple, annual report, UK	grapevine 6758
Pleurotus spp. 2907, 6122, 6124, 6958	903	fruit, grapevine 6758
Stropharia rugosa annulata 6958	fruit 1698	Difolatan, compatability, tomato 1288
Volvariella volvacea 4603, 5382, 6958	apple, annual report, Australia	dimethirimol, application, methods
spores, leaf surface, examination	5693	compared, melon (cantaloup and
techniques 8291	currants 4308	musk) 5221
Fungicidal properties	orange 9099	dinitrophenols
Brassica spp. 9033	review, mushroom 702	protective ability
Curcuma spp. 9033	seed treatment, vegetables 6861	apple 7385
essential oil plants 6256	soil micro-organisms, apple 8391	marrow 7385
Fungicides	tolerance, carnation 269	dinocap, injury, grapevine 1914
Acrex, as acaricides, apple 6571	translocation	diphenylamine, application, packing straw,
Acricid, as acaricides, apple 6571	carnation 716	pomegranate 9118
2-aminobutane, residues, fruit, citrus,	orange 9099 strawberry 5102	Dithane M45, application, wax coatings, tomato 6105
annual report, USA 2375 ammonium compounds, application,	yield increase, mushroom 3829	dithiocarbamates, chloroplast, activity,
packing straw, pomegranate 9118	benzimidazole, ozone, injury, prevention,	bean (Vicia) 8713
Bavistin, fruit, quality, apple 5731	bean (Phaseolus) 1210	DPA, disorder incidence, apple 5005
Bayer 47351, injury, strawberry 8514	binapacryl, residues, determination, tree	Enovit
benomyl	fruits 7324	fruit, russeting, apple 8391
absorption, tea 6460	biphenyl	soil micro-organisms, apple 8391
as acaricides	application, wax coatings 2404	ethazol, injury, carnation 7851
apple 5734	residues, fruit, citrus 2404, 9107	ethoxy trichloromethylthiadiazole, plant,
bean (Phaseolus) 5253	bordeaux mixture	height, chrysanthemum 6146
additives, cormels, gladiolus 1358	enzyme activity	ethylenebisdithiocarbamates, residues,
adsorption, strawberry, annual report,	apricot 4952	fruit, apple 4218
UK 7489	inhibition, apricot 4952	etridiazol, injury, tulip 2259
air pollution injury, prevention, bean	fruit, set, grapevine 6755	fentin acetate, residues, celery 2900
(<i>Phaseolus</i>) 3698 application	injury pineapple 3249	fentin hydroxide insect control, Ascotis selenaria, coffee
under air pressure, setts, sugar cane	stone fruits 6612	3205
8229	persistence 1748	nut, set, pecan 8473
methods compared	respiration 4951	ferbam, enzyme activity, inhibition,
Aechmea spp. 4673	Brestan, injury, pineapple 3249	apricot 4952
cormels, gladiolus 1358	captafol	folpet
grapevine 1917	application, methods compared, annual	injury, rose 2995
tomato 6919	report, Kenya 3191	persistence 1748
wax coatings, orange 6362	persistence 1748	residues, determination, fruit 2505
surfactants 2875	residues, determination, fruit 2505	Foltapet 1116
disease increase, lily 7903	captan	residues, fruit, grapevine 1116
earthworm populations, apple 1752	application	general
flowering, nerine, annual report, Netherlands 6127	under air pressure, setts, sugar cane	application
fruit 6127	8229	adjuvants
ripening, stone fruits 2632	wax coatings, tomato 6105	fruit trees and plants 5686
russeting	cuttings, treatment, peach rootstocks 1817	tomato 5686 -insecticide mixtures
annual report, German Federal	earthworm populations, apple 1752	application, reduced concentration,
Republic 6506	injury	apple 2585
apple 1747, 8391	Panax ginseng 3052	cucumber and gherkin 6820
growth reduction, campanula 6160	strawberry 109, 1073	fruit
injury	mite populations, apple 5737	ascorbic acid, content, apple 2585
application methods, Aechmea spp.	residues	russeting, apple 1769
4673	determination, fruit 2505	sugars, content, apple 2585
carnation 714	fruit, apple, annual report, UK 8318	responses, garlic 6023
fruit russeting, apple 1747	carboxin, application, adjuvants, lemon	interaction
mango 4873	3130	herbicides, shallot 1258

Subject Index		1005
Fungicides contd.	Fungicides contd.	Fungicides contd.
interaction contd.	thiabendazole contd.	zineb contd.
nematicides, lawns and sports turf	determination, citrus 2403	injury contd.
2266	earthworm populations, apple 1752	currants 4308
mancozeb	injury, mango 4873	Panax ginseng 3052
additives, Nu-Film 17, capsicum 6043 residues, fruit, currants 4308	persistence, soil, plant, tomato 6086 residues	respiration 4951 ziram
maneb	determination 4806, 6501	enzyme activity, inhibition, apricot
injury, Panax ginseng 3052	orange 4019	4952
residues, fruit, currants 4308	tree fruits 7156	respiration 4951
MBC, translocation, strawberry 5102	fruit 4806	Fusarium equiseti, Piper betle, diseases
mercury compounds injury coffee 3193	apricot, annual report, Australia 5693	7118
mercury compounds, injury, coffee 3193 Mertect, injury, carnation 714	banana, annual report, Australia	F. gibbosum, incidence, melon (cantaloup
Morestan	5600	and musk) diseases 8653 F. martii
as acaricides, apple 6571	citrus 4813	host-pathogen relationships, pea diseases
injury, black currant 7499	orange 4019	2055
NF-35, application, methods compared, Aechmea spp. 4673	tree fruits 7156 translocation, tomato 6086	toxins, pea diseases 2055
nickel compounds, synergism, insecticides,	thiocarbamates, respiration, enzyme	F. moniliforme
annual report, India 1657	activity, apple 6578	citrus diseases 369
oil formulations, injury, apple 473	thiophanate	Dracaena spp., diseases 8924
oils, injury, banana 1542	as acaricides, apple 5734	fig diseases 8450
O,O-diethyl phthalimidophosphonothioate 8305	earthworm populations, apple 1752 injury, melon (cantaloup and musk)	mango diseases 4065 Mexico, sugar cane diseases 6440
orthophaltan, respiration 4951	5965	nerine diseases, annual report,
oxycarboxin	plant, responses, melon (cantaloup and	Netherlands 6127
translocation	musk) 5965	Piper betle, diseases 7118
growth substances	residues	f. subglutinans, control, nerine diseases
almond 5707	determination	5433 F. nivala
chestnut (<i>Castanea</i>) 5707 peach 5707	apple 7610 vegetables 7610	F. nivale control, lawns and sports turf, diseases
PCNB, application, under air pressure,	thiophanate methyl	8918
setts, sugar cane 8229	as acaricides, apple 5734	lawns and sports turf, diseases 1371,
phenylphenol	fruit, russeting, apple 1747	2971, 6195
residues determination, citrus 4018	plant, responses, melon (cantaloup and musk) 5965	F. oxysporum Aconitum napellus, diseases 3963
fruit, citrus 9107	thiophanates, residues, determination,	Aechmea spp., diseases 4673
Polymarcin, respiration, enzyme activity,	bean (Phaseolus) 4477	f. albedinis, date diseases, book 9109
apple 6578	thiram	f. asparagi, asparagus diseases, annual
quintozene	application, wax coatings, tomato	report, Netherlands 6772
application, method, lettuce 1970	6105 cuttings, treatment, peach rootstocks	asparagus diseases 659 bulbs, diseases 3864
strawberry 109	1817	cacti, diseases 2267
residues	fruit, thinning, apple 974	f callistephi, varietal resistance, aster,
determination	injury, strawberry 1073	china, diseases 2212
banana 3331	residues, plant, lettuce 7634	carnation diseases 716
vegetables 3331 RH 90	synergism, seed treatment, pea 7731 tainting, strawberry, annual report, UK	annual report, Netherlands 6126, 6961 chicory diseases 7622
fruit, acidity, grapevine 3579	1872	f. chrysanthemi, varietal resistance,
yield increase, grapevine 3579	TMTD	chrysanthemum diseases 8862
Santar, wound healing 4207	enzyme activity, inhibition, apricot	citrus diseases 369
Sclex	4952	f. conglutinans, interaction, turnip mosaic,
residues determination, grapevine 1924	plant height, <i>Hippophae</i> e spp. 7957	cabbage, chinese, diseases 8621 control
fruit, grapevine 1924	size, Hippophaee spp. 7957	cacti, diseases 8921
Selinon, respiration, leaf bud, stone fruits	respiration 4951	hop diseases 7091
4951	tolerance, annual report, Austria 265	lily diseases 7902
sodium o-phenyl phenate, application, wax	tri-dimethyldithiocarbamoyl-arsin, residues, fruit, strawberry 2704	pyracantha diseases 7963
coatings, tomato 6105 sodium 2-phenylphenate	triarimol	f. corianderii, incidence, coriander diseases 8981
application, wax coatings 2404	fruit, russeting, apple 1747	corm storage, growth substance treatment,
residues, fruit, citrus 2404	injury, fruit russeting, apple 1747	gladiolus diseases 2239
streptomycin	ozone injury, prevention, bean	f. <i>cubense</i> , incidence, banana diseases
absorption, hop 1419 residues	(<i>Phaseolus</i>) 1211 respiration, enzyme activity, apple	f. cumini, cumin diseases 3937
hop 1419	6578	cyclamen diseases 3866
leaf, tomato 2125	triforine 4140	f. dianthi
plant, marrow 1190	injury, cherry 8475	carnation diseases 5400
translocation, hop 1419	tolerance 4140	histology, carnation diseases 4620
sulphur, mite populations, apple 1756 sulphur compounds, application, packing	Trithion, fruit, flavour, blueberry 8499 Tuzet, persistence 1748	f. elaeidis, resistance, breeding and selection, oil palm diseases 8164
straw, pomegranate 9118	unspecified, yield increase, coffee 836	enzyme, content, pea diseases 8718
systemic	various	ethylene, production, tulip diseases 3880
application, methods compared,	application, soil 3316	freesia diseases, annual report,
ornamental plants, annual report,	fruit	Netherlands 6126
German Federal Republic 6959 book 4927	quality, apple, annual report, Canada 1719	f. gladioli corm production, gladiolus diseases
review 444, 7297	russeting	1358
TBZ	apple 6560	cormel production, gladiolus diseases
additives, cormels, gladiolus 1358	annual report, German Federal	1358
application	Republic 6505	detection, in corms, gladiolus diseases
adjuvants, lemon 3130 methods compared, cormels, gladiolus	tolerance, ornamental plants 2173 yield increases, coffee, annual report,	7900 herbicides, sugar cane diseases 5652
1358	UK 2449	incidence, melon (cantaloup and musk)
residues, citrus, annual report, USA	zineb	diseases 8653
8051	application 1216	f. lycopersici
Terrazole	spreaders, bean (<i>Phaseolus</i>) 1215	control, tomato diseases 6086, 8482, 8779
persistence, soil, plant, tomato 6086 translocation, tomato 6086	surfactants, bean (<i>Phaseolus</i>) 1215 enzyme activity, inhibition, apricot	greenhouse disinfection, tomato diseases
thiabendazole	4952	7795
application, methods compared, wax	injury	host enzyme activity, tomato diseases
coatings, orange 6362	bean (Phaseolus) 1215	6084–6085, 7796

Fusarium oxysporum contd.	Fusarium contd.	Fusarium spp. contd.
f. lycopersici contd.	F. semitectum, marrow diseases 4456	toxins contd.
host-pathogen relationships	F. solani bean (Phaseolus) diseases 5241	transpiration, vegetables 4478 varietal resistance
growth substances, tomato diseases 3815	citrus diseases 369	asparagus diseases, annual report,
phenols, production, tomato diseases	coffee diseases 8151	Australia 5882
2120	herbicides, sugar cane diseases 5652	chrysanthemum diseases 8862
host phenols, content, tomato diseases	incidence, melon (cantaloup and musk)	sugar cane diseases 850
3805	diseases 8653	tomato diseases 675, 2858, 5337, 8765
infection studies, tomato diseases 6918	marrow diseases 4456	water potential, tomato diseases 6923
resistance, tomato diseases 4570 resistance, tomato diseases 2111,	mulberry diseases 2057 Panax spp., diseases 2057	watermelon, annual report, USA 4368 yield reduction, dill diseases 8976
4571–4572, 7797	pea diseases 2057	Fusiciadium carpophilum
soil, fumigation, tomato diseases 4570	f. phaseoli, soil compaction 181	control, almond diseases 7328
soil fumigation, tomato diseases 7795	Piper betle, diseases 7118	stone fruits, diseases 7328
soil sterilization, tomato diseases 7795	secondary invaders, pea diseases 6862	Fusicladium effusum
tolerance, tomato diseases 7797	seed-borne, okra diseases 4528	control, pecan diseases 5057, 7464 pecan diseases, annual report, USA 170
tomato diseases 6919 annual report, Netherlands 6772	symptoms, bean (<i>Phaseolus</i>) diseases 7706	F. pyracanthae, varietal resistance,
varietal resistance, tomato diseases	F. sporotrichiella, strawberry diseases 5101	Pyracantha spp., diseases 2310
2860, 3792, 6057–6058	F. spp.	Gagea spp., tuliposides 8908
f. melonis	bromeliads, diseases, annual report,	Gaillardia spp.
control, soil treatment, melon	Netherlands 6126 bulb treatment, tulip diseases 2259	diseases, cucumber mosaic 4641 nematicidal principles 283
(cantaloup and musk) diseases 8654	bulbs, diseases 6165	sapogenins 2942
host enzyme activity, melon (cantaloup	cacao diseases, annual report, Venezuela	seed, germination 725
and musk) diseases 5953	6391	Galinsoga parviflora
melon (cantaloup and musk) diseases	carnation diseases 714	as weeds
5965	Fusarium spp., celery diseases 2144 F. spp.	cabbage 6795 vegetables 7648
varietal resistance, melon (cantaloup and musk) diseases 6806	celery diseases, annual report, USA 8585	G. spp., as weeds, vegetables 7627
narcissus diseases, annual report,	citrus diseases 5563	Gallium, toxicity, cucumber and gherkin
Netherlands 2219	coffee diseases, annual report, Kenya	157
f. niveum	3191	Galphimia spp.
soil, inoculum, watermelon diseases 2771	control gladiolus diseases 7899	pollen tube, growth 707 tissue culture, pollen 707
varietal resistance, watermelon diseases	hop diseases 6279	Ganoderma lucidum, coconut diseases 405
6805	pea diseases 5277	G. spp., coffee diseases 4057
f. passiflorae, resistance, breeding and	corm treatment, gladiolus diseases 2241,	Gardenia
selection, passion fruit diseases, annual	3868	acaricides, injury 7024
report, Australia 4782	F. spp, cucumber and gherkin diseases 621	gum, composition, flavones 766
oil palm diseases, annual report, Nigeria	F. spp. cucumber and gherkin diseases, annual	plant, composition, gum 766 Gardenia pests
9181	report, Belgium 5148	annual report, USA 1441, 6129
pyracantha diseases 7963	epiphyte, pecan 2653	mites, control 7024
Piper betle, diseases 7118	fruit storage, apple diseases 4224	Gardenia propagation, cuttings, media 383
f. pisi	geranium diseases 7864	Garlic annual report, Canada 2734
assessment methods, pea diseases 5165 infection process, pea diseases 6862	hop diseases, annual report, German Federal Republic 7064	bibliography 8975
pea diseases 2056	incidence	fungicides, -insecticide mixtures, response
annual report, UK 3611	asparagus diseases 2079	6023
resistance, pea diseases, annual report,	tree fruits 6327	growing, in greenhouses, pest damage
UK 3612 root exudates, pea diseases 8719	vegetables 6327 inoculation	3757 insecticides, -fungicide mixtures, respons
varietal resistance, pea diseases 6007,	yield increase	6023
6859	capsicum 6038	irrigation 5296-5297
planting date, tulip diseases 2958	tomato 6038	saline water 4518
resistance, pea diseases, annual report,	lawns and sports turf diseases, annual	medicinal properties 5168
UK 5149 secondary invaders, pea diseases 6862	report, USA 8839 leek diseases 661	pectins, content, bulb skin 8745 planting, bulb, size 3756
seed-borne, bean (Phaseolus) diseases	lily diseases, annual report, USA 8834	sprouting 5297
5982	melon (cantaloup and musk) diseases,	weed control 660, 5295, 5680, 6021,
seed treatment, onion diseases 6875	annual report, Cyprus 3604	6030
set treatment, onion diseases 6875	narcissus diseases, annual report, UK	annual report, New Zealand 5152
soil, fumigation, aster, china, diseases 2206	3834 Panax ginseng, diseases 3052	Garlic bulb heat treatment 1690
tomato diseases, annual report, Canada	parsley diseases 3014	skin
2734	petunia diseases 722	composition 1245
f. tracheiphilum, varietal resistance,	resistance	pectins 8745
chrysanthemum diseases 8862	breeding and selection, aster, China,	Garlic diseases, Penicillium corymbiferum
tulip diseases 296 annual report, Netherlands 2219	annual report, USA 6129 tomato diseases 2859	1244 Garlic nutrition
f. tulipae, tulip diseases, annual report,	rootstock resistance, melon (cantaloup and	boron 227
Netherlands 2219	musk) diseases, annual report,	magnesium, requirements 4381
varietal resistance, aster, china, diseases	Netherlands 1135	major elements, plant analysis 4381
f vacinfectum resistance cancioum	seed treatment	minor elements, plant analysis 4381
f. vasinfectum, resistance, capsicum diseases 5324	capsicum diseases 6899 coffee diseases 3193	molybdenum 227 nitrogen 5296–5297
F. redolens	eggplant diseases 6899	requirements 4381
asparagus diseases 659	sett germination, sugar cane diseases 850	phosphorus, requirements 4381
carnation diseases, annual report,	soil, micro-organisms, replanting,	potassium, requirements 4381
Netherlands 6126, 6961	grapevine 1105	sulphur, requirements 4381
F. roseum asparagus diseases, annual report,	storage rots, carrot 1308 symptoms, geranium diseases 8869	Zinc 227, 6022
Netherlands 6772	tomato diseases	Garlic pests Aceria tulipae 228, 3757
banana diseases 1541	annual report	Liriomyza langei 5298
biological control, Pseudomonas spp.,	Australia 5882	Tetranychus telarius 228
carnation diseases 2922	Irish Republic 1939	Garlic soil, salinity, irrigation 4518
cucumber and gherkin diseases, annual report, USA 1130	St. Lucia 8577 USA 4368	Garlic varieties French West Indies 5294
-nematode complex, lawns and sports turf,	toxins	USSR 1942
diseases 6196	leaf anatomy, bean (Phaseolus) 4487	Gas, natural
secondary invaders, pea diseases 6862	plant responses, tomato 5353	injury 5679

Subject Index
Gas, natural contd.
injury contd. prevention 5679
Gascardia destructor
citrus pests 6350
annual report, Australia 4782
Gaultheria fragrantissima, leaf, composition
7078
Gaylussacia spp., leaf, composition 5880
Gazania spp.
ground cover plants 710
weed control 710
G. uniflora, ground cover plants, growth
retardants 6157
Genista spp., varieties, comparative trials,
Netherlands 7050
Geococcus coffeae
calamondin pests, annual report, USA
2375
flowering plants, pests, annual report,
USA 8834
Geotrichum candidum
irradiation, lemon diseases 2411
soil steaming, mushroom diseases 6956 G. spp., storage dips, lemon diseases 6363
Castronia regranges athulana rea 2050
Geotropic responses, ethylene, pea 2059
Geotropism, root, cress 8636 Geranium
air pollution, sulphur dioxide, ethylene,
injury 6132
annual report
Austria 265
Netherlands 6127 USA 3836, 8834
USA 3836, 8834
breeding and selection, plastid colour
6980 carbon dioxide, uptake, mechanism 2508
dwarfing
growth substances 7866, 8870–8871
ancymidol 6983
chlormequat 2194, 2196, 6983
annual report, UK 6128
essential oil
biosynthesis 4747 composition 5496, 5501, 7965, 7989
composition 5496, 5501, 7965, 7989
content 7989 flowering
growth substances 7866
6-benzylamino purines 2195
ethephon 2195
genetics 3843
Geranium, genetics 5407
Geranium
glucose, absorption, leaf discs 7865
ground cover plants 710
growing under glass, heating, infra-red 4134
media, coal ash 8857
as not plants, production 5390
as pot plants, production 5390 from seed 2194
herbicides
responses 8852
toxicity
dicamba 2495
picloram 2495 photosynthesis, carbon dioxide uptake,
mechanism 2508
physiology, annual report, USA 3835
physiology, annual report, USA 3835 respiration, leaf, cycloheximide 274
stomata
distribution 5406
movements.
oxygen 2193
temperature 2192
water relations, lysimeters 4128 weed control 710, 2171, 2495, 8852
Geranium diseases
Fusarium spp. 7864
symptoms 8869
leaf curl 6149
Pseudomonas spp., symptoms 8869
Puccinia pelargonii-zonalis 2929
control 7848
fungal parasites 6982
heat treatment 8868 Rhizoctonia solani 7864
ring spot 3844
Verticillium albo-atrum 5409
symptoms 8869
V. dahliae 5409
virus, annual report, Netherlands 6961
WHIT 4.56

```
Geranium diseases contd.
    Xanthomonas pelargonii, infection process
         5408
    X. spp., symptoms 8869
Geranium flower
   biology 7867
                                                                              Ghana
   bud initiation, growth substances 2194
   number, growth substances 8870
Geranium growth substances
   branching
       6-benzylamino purines 2195 ethephon 2195
                                                                              Ginger
       TIBA 2195
   dwarfing
      aminozide 8871
ancymidol 6983, 7866
chlormequat 2194, 2196, 6983, 7866,
8870–8871
   annual report, UK 6128
flower, number, chlormequat 8870
flower bud, initiation, chlormequat 2194
   flowering
       ancymidol 7866
       chlormequat 7866
       date
   6-benzylamino purines 2195
ethephon 2195
leaf, colour, chlormequat 2196
respiration, cyclohexamide 274
   responses
       aminozide 6150
aminozide 6150
chlormequat 6150
retardants, review 7846
Geranium leaf, colour, growth substances,
chlormequat 2196
Geranium nutrition 1325
   fertilizers
liquid 6983
slow-release 6983
   Reunion, annual report, France 754
Geranium propagation, cuttings, temperature
Geranium seed
   germination 6981
    sowing, direct, annual report, Canada
         8836
treatment, sulphuric acid 6981
Geranium varieties, bedding plants
                                                          7863
    annual report, Netherlands 6127
    breeding and selection
       annual report, Italy clones 720
       seedlings 720
tetraploids 1337
   bromine, content, soil, fumigation, methylbromide 5394
economics, Netherlands 2197
   growing
media, Organit 38
Netherlands 2198
                                 3845, 6985
peat 6984–6985
plant variation 724
Gerbera diseases 2200
Alternaria spp. 2200
Botrytis cinerea 2200
   crown rot, annual report, USA 8834
Ordium erysiphoides, f gerberae 2200
Phyllosticta gerberae 2200
Phytophthora cryptogea 1338
annual report, German Federal
Republic 6959
virus 2200
erther disorders 2000
Gerbera disorders 2200
Gerbera flower, cut, fluorine injury, tap
water 2913
Gerbera nutrition 2199
copper, annual report, Netherlands 6962
Gerbera pests, Tetranychus spp., annual report, Denmark 3298
Gerbera propagation, material, annual
      report, Canada 8836
Gerbera seed
    germination, temperature 7868
    treatment, colchicine, tetraploids 1337
Gerbera soil
composts, compared 3845
funigation, methyl bromide, plant
composition, bromine 5394
German Democratic Republic, vegetables,
```

growing 5155 German Federal Republic

blackberry, growing 7504

```
German Federal Republic contd.
  capsicum, growing 4530
  raspberry, growing 7506
  strawberry, growing 7518
Geum urbanum, sugars
  cacao, economics 6392
   sugar cane, growing 4882
Gibberella saubinettii, symptoms, passion fruit diseases 9117
  annual report, Australia 755
  essential oil
     composition 7965
     volatile constituents 3022
   growing, as an intercrop, pineapple 9198
   irradiation, gamma rays, post-harvest
      4527
   mulching
                 7076
  planting
rhizome size 7982
     spacing 7982
time 7075
   research, India, review 7968
Ginger nutrition
  iron, deficiency, symptoms 5492 nitrogen 7076
  nitrogen 7076
annual report, Sarawak 3933
deficiency, symptoms 5492
phosphorus, deficiency, symptoms 5492
potassium 7076
deficiency, symptoms 5492
Ginkgo biloba, trunk, stress distribution
    8939
Gisekia pharnaceoides, plant, composition
    1449
Gladiolus
   Annual, British Gladiolus Society 5422
   annual report
  Austria 265
Netherlands 2219
USA 1441, 6129, 8834
breeding and selection
      annual report
         Canada 8836
         Italy 6960
   dormancy
     breaking, temperature 291
     estimation 4655
varietal differences
  economics, USA 7004 enzyme activity
      corm, dormancy 4655
cormel, dormancy 465
      determination 4655
      flower 3851
   flowering, corm storage, temperature
       8892
   fluorine, toxicity, cut flowers 7006
   forcing 6165
herbicides, responses
   historical survey 4654
   irradiation, gamma rays, mutation
       induction 6172
   mutants, induction 6172
   species, classification 4654
   temperature, disease incidence, Curvularia trifolii 5423
   tissue culture, shoot-tip, media 7005
transport, vacuum cooling 2164
weed control 2237, 5680, 6175, 8852
Gladiolus corm
   development 5422
   drying, flowering 8892
harvesting, time of 8892
production 1357
      disease control 1358
   flower harvesting, mechanical 2945 growth substances, ethephon 1358 storage, temperature, flowering 8892
   treatment
      fungicide and growth substance
mixtures 2239
fungicides 2240, 3868
benomyl 7899
      washing, disease control 7899
   water content, flowering 8892
Gladiolus cormel
   formation, growth substances 6174
   production
      disease control 1358
   growth substances, ethephon 1358 treatment, fungicides 2240
```

Gladiolus diseases	Glomerella cingulata contd.	Gooseberry diseases contd.
aster yellows, indicator plants 290	control, peach diseases 7448	Phytophthora cactorum, incidence, annua
Botrytis spp., control 7899	Hoya spp., diseases 2307	report, German Federal Republic 6669
Curvularia spp., corm treatment 2241 C. trifolii, incidence 5423	incidence, coffee diseases 1575 resistance, camellia diseases 2981	Puccinia caricina, annual report,
Fusarium oxysporum	varietal resistance, tomato diseases 2107	Netherlands 5073
corm storage, growth substance	G. tucumanensis	Septoria spp. 2679
treatment 2239	heat treatment, sugar cane diseases 8230	Sphaerotheca mors-uvae 5731
f. gladioli	varietal resistance	Gooseberry disorders, marginal necrosis
corm production 1358	screening method, sugar cane diseases	2678
detection, in corms 7900	1636 sugar cane diseases 8194	Gooseberry fruit ascorbic acid, content, herbicides 1051
F. spp.	Gloriosa spp., annual report, Austria 265	composition 101
control 7899	Glossary, common plant names, multilingual	firmness, growth substances 3522
corm treatment 2241, 3868	7030	flavour, growth substances 3522
Stromatinia gladioli, annual report, Netherlands 6961	Gloxinia	loosening
Uromyces transversalis 3317	annual report, Netherlands 6127	growth substances 3522
virus 2944	growing	ethephon 5801
Gladiolus flower	peat, nutrition 8894 as pot plants, production 5390	pectins, content 2683 respiration, ripening 2682
cut 7004	light, intensity 6176	ripening
economics 7004 fluorine injury 7006	potting composts	cations, content 2682
opening, preservatives 7901	types compared 2946	organic acids, content 2682
packing, methods compared 7901	plant nutrition 8893	respiration 2682
preservatives 7006	Gloxinia flowering, date, growth substances	Gooseberry growth substances, fruit,
floret opening 7901	6176	loosening, ethephon 3522, 5801
harvesting, mechanical 2945 Gladiolus growth substances	Gloxinia growth substances	Gooseberry pests Aphis grossulariae 5079
corm	dwarfing aminozide 6176	Cryptomyzus ribis 5079
splitting, ethephon 2239	ancymidol 6176	Eriosoma ulmi 5079
storage, ethephon 2239	flowering	Hyperomyzus lactucae 5079
corm production, ethephon 1358	date	Pteronidea ribesii 2680
formation	aminozide 6176	Zephodia convolutella, biological control 7498
abscisic acid 6174	ancymidol 6176	Gooseberry propagation
GA 6174	injury, ancymidol 6176	cuttings
kinetin 6174	leaf, chlorophyll, content, aminozide 6176	shoot, position on source plant 6679
cormel production, ethephon 1358	retardants, Pydanon 2163	time 6679 Gooseberry seed, composition 101
fungicides, efficiency, ethephon 2239 Gladiolus nutrition, plant analysis 2238	Gloxinia leaf, chlorophyll, content, growth	Gooseberry seed, composition 101 Gooseberry soil, management, methods
Gladiolus pests, Macrosteles sexnotatus,	substances, aminozide 6176	compared 7503
mycosplasma, vectors 290	Gloxinia nutrition 2946	Gooseberry varieties
Gladiolus propagation, shoot-tip culture,	nitrogen, annual report, Netherlands	comparative trials, USSR 528
media 7005	6962 NIDV 9902 9904	disorder incidence, marginal necrosis
Gladiolus root, contraction, mechanism 289	NPK 8893–8894 Glycine javanica, as a cover crop, oil palm	USA, winterhardiness 3358
Gladiolus seed	7209	Gophers, control, sugar cane pests 9258
composition 2943	Glycosides	Grading
oil 2943	content	bulbs, annual report, Netherlands 2219
Gladiolus varieties 5422	bean (<i>Phaseolus</i>) 8705	computerized system
comparative trials, India 6173 USSR 2157	bean (<i>Vicia</i>) 8705 flower, lily-of-the-valley 7914	quality, tomato, annual report, Netherlands 8581
Glechoma hederacea, as weeds, fruit trees	growth substances, tomato 8794	size, tomato, annual report, Netherland
and plants 1712	leaf, lily-of-the-valley 7914	8581
G. spp., as weeds, fruit trees and plants	nitrogen nutrition, tomato 8794	electronic, fruit, annual report,
909 Glenea aluensis, cacao pests 2444	Gnomonia erythrostoma, control, apricot diseases 6611	Netherlands 23 mechanical
G. lebebueri, cacao pests 2444	G. fructicola, strawberry diseases 4331	apple, annual report, UK 5752
Gliocladium spp., soil, micro-organisms,	Godetia spp.	equipment, brussels sprouts 4434
replanting, grapevine 1105	growing, as pot plants, annual report,	flowers
Gliricidia maculata, as shade plants, rubber	Canada 8836	annual report, Netherlands 1314
9209 Gloeodes pomigens, apple diseases 1750	Gomidesia spp., growing, tropical America	fruit 2511
Gloeosporium album	377	specific gravity determination
apple diseases 53, 990, 4985, 5006	Gooseberry	eggplant 4913
fruit dips, apple diseases 3433	annual report	melon(cantaloup and musk) 4913
G. ampelophagum	Irish Republic 1857	volume determination
control, grapevine diseases 6754 grapevine diseases, annual report, India	Netherlands 6670 UK 3515, 5076, 7489	eggplant 4913 melon (cantaloup and musk) 4913
2668	economics	pre- and post-storage compared, apple
G. amygdalinum, resistance, almond	EEC 3343	6596
diseases, annual report, Tunisia 4944	UK 3343	size, consumer preference, apple 7418
G. elasticae, Ficus elastica, diseases 788	enzyme activity, fruit 2683	work studies
G. fructigenum, apple diseases 5006 G. laeticolor, control, peach diseases 7448	harvesting, mechanical 1046 herbicides	apple 918 pome fruits 917
Gloeosporium musarum, banana diseases	fruit, ascorbic acid content,	Grafting
829, 1541, 1546, 4833	chlorthiamid 1051	bench grafting
G. olivarum, olive diseases 3166	residues, soil, chlorthiamid, dichlobenil	apple 7339
G. perennans, apple diseases 5006	6542	cedar 4687
G. spp. apple diseases 486	tolerance, annual report, UK 529 irrigation, trickle 1046	rose 4708
annual report, UK 903, 8318	mulching, peat 4190	stratification units, grapevine 8533 walnut 3513
clonal resistance, rubber diseases 7222	photosynthesis, productivity, estimation	bench grafts
control, apple diseases 8391	2681	planting, methods compared, grapevin
epiphyte, pecan 2653	production and trade	6724
fruit storage, apple diseases 1798, 5751 post-harvest dips, apple diseases 5751	EEC 3343 UK 3343	dormant scions during growing season,
resistance, currants 1048	respiration, fruit, ripening 2682	peach propagation 77
Glomerella cingulata	weed control 6542	graft storage
apple diseases 1748–1749, 1754, 4209	Gooseberry diseases	fungicide treatment
Betula spp., diseases 4209 coffee diseases 3204	Botrytis cinerea, annual report,	grapevine 7553
CONTROL BISCHESCO SEO 1	Netherlands 5073	grapevine propagation 3568

Grafting contd.	Grapefruit contd.	Grapefruit, fruit contd.
graft storage contd.	fungicides	ripening, growth substances, GA 1502
temperature * 4181	residues fruit	shape
apple propagation 4181 grapevine 1094	biphenyl 9107	humidity 5548 measurement 5579
walnut 96	phenylphenol 9107	temperature 5548
walnut propagation 3513	growing	size
graft treatment	Mexico 9076	measurement 5579
fungicides, grapevine 7556	Mozambique 360	pruning and training 1476
paraffin	harvesting, time of, fruit composition 6366	rootstocks 6332 wax coatings 3154
apple 7340 grapevine 6724, 7556	interstocks, disease incidence 5559	injured fruit 3154
height, cold resistance, apple 4180	irrigation	Grapefruit growth substances
mechanical	saline water, salts concentration 3122	disease incidence, 2,4-D 1506
equipment	sprinkler, damage 3122 nitrates, content, NPK nutrition 2384	dwarfing aminozide 2400
fruit trees and plants 4179	as a pollinator, tangor 9102	limonene derivatives 2400
walnut 4293 grapevine 6724	pruning and training, methods compared	fruit
methods	1476, 6341	degreening, ethephon 2409
tropics	rainfall fruit	ripening, GA 1502
fruit trees and plants 875	acidity 4815	Grapefruit leaf composition
ornamentals 875	maturity 4815	mineral elements 1484
winter hardiness, apple 8352	respiration, fruit, gamma rays 1504	rootstocks 6332
methods compared, mango 3221, 5629 mutation induction, <i>Capsicum annum</i> , on	storage cold	nutrients, content, irrigation, saline water
Datura stramonium 2839	fruit, composition 6366	3122 Grapefruit nutrition
on to roots of established plants,	hypobaric 8098	nitrogen
grapevine 565	containers, pliofilm, chilling injury,	application
rootstocks	prevention 8098	foliar 3993
anatomy, grapevine 6720 planting	controlled atmosphere chilling injury 1505	time 3995 leaf analysis 2384
spacing	prevention 8098	phosphorus
apple 7349	fruit	application, foliar 3993
pear 7349	composition 6366, 9104	leaf, composition 2384
storage, grapevine 7553 rootstocks treatment	enzyme activity 9104 flavour 9104	potassium application
fungicides, grapevine 7553	respiration 9104	foliar 3993
water, grapevine 7553	disorders, coatings, fungicides 7152	methods compared 798
scions	rots, coatings 1506	deficiency 798
anatomy, grapevine 6720 storage, grapevine 7553	temperature, disease incidence 1506 wax coatings, chilling injury, prevention	fruit, size 798 leaf, composition 2384
treatment	8098	sources 798
growth substances	temperature	Grapefruit pests
GA, pear 1833	fruit	Aonidiella aurantii, resistance 3134
IAA, pear 1833 leaf removal, mango propagation	peel thickness 5548 shape 5548	mites, biological control 366 Grapefruit propagation, nucellus, embryo,
3222	transport, pre-cooling, temperature,	tissue culture 6333
shoot-tip, virus-tested plants, citrus 794	container- 4016	Grapefruit rootstocks
side-	tree, thinning 6341	Citrus macrophylla 8063
conifers 4688 mango propagation 3222	weed control 2382 Grapefruit diseases	comparative trials, USA 6332, 8063 disease incidence, impietratura 5559
side cleft, cedar propagation 4687	exocortis	disease resistance, Mycosphaerella citri
union	incidence 5558	9092
anatomy	virus-free nucellar bud lines 9089	-scion relationships, leaf, composition 1484
declining trees, avocado 5542 walnut propagation 5067	Fusarium spp., incidence 6327 impietratura	Grapefruit seed
callus fusion	Cyprus 5559	oil
tissue culture	Italy 5559	composition 372
apple 3567 chestnut 3567	Mycosphaerella citri 3127 rootstock resistance 9092	sterols 1510 Grapefruit varieties
grapevine 3567	M. spp. 3132	fruit, folic acid 4816
peach 3567	Phytophthora citrophthora, infection	virus-free nucellar selections, comparative
pear 3567	source, irrigation water 9094	trials 9089
persimmon 3567 development, virus diseases, cherry	xyloporosis, virus-free nucellar budlines 9089	acaricides, injury, tetradifon 7580
propagation 999, 8437	Grapefruit disorders	air pollution, lead, content, fruit 5837
incompatibility, detection, fruit trees	low-temperature pitting 7152	amides, biosynthesis, translocation, root,
and plants, propagation 6509	pink pitting, annual report, USA 2375	plant nutrition 5868
protection, apple 5714 veneer	storage spot 4812 Grapefruit, fruit	amino acids biosynthesis
cashew 9146	acidity, rainfall 4815	fruit 7587
mango 5629	alcohols, content, storage 9104	leaf 7587
whip-grafting, walnut propagation 3513	composition 5575, 7157	translocation, root, plant nutrition
work studies, grapevine 4339 Grapefruit	harvesting date 6366 degreening, growth substances, ethephon	5868 content, chlorosis 6750
annual report	2409	annual report
Cyprus 3980	flavour, storage, controlled atmosphere	Australia 550, 4296
USA 790–791	9104 folio paid 4816	Belgium 3559
breeding and selection, frost resistance 3106	folic acid 4816 hydrocarbons	Canada 7488 Cyprus 3560
dwarfing	biosynthesis 1497	Czechoslovakia 6713
growth substances	determination 1497	German Federal Republic 4298, 5072
aminozide 2400	maturity, rainfall 4815	5094, 6669
limonene derivatives 2400 economics 1502	peel thickness	India 2668 Italy 6714
enzyme activity, carbon dioxide	estimation 5579	Tunisia 3561
concentration 1505	temperature 5548	USA 1440, 5077–5078, 7490, 8525
essential oil	pigments, metabolism 4005	Yugoslavia 3517
alcohol determination 6369 content, seed, sterols 1510	post-harvest treatment, gamma rays, respiration 1504	breeding and selection 554, 1893 disease resistance
ethylene, production, fruit, storage 1505	proteins, content 4941	Peronospora spp. 4350
frost, protection, temperature data 6335	quality, pruning and training 1476	Plasmopara viticola 5825

Grapevine contd.	Grapevine contd.	Grapevine contd.
breeding and selection contd.	frost contd.	herbicides contd.
disease resistance contd.	resistance contd.	trifluralin 1902
Uncinula necator 5825	protoplasmic properties, varietal	yield increase, monlinuron 1902
fruit, transportability 7547	differences 8539	insecticides 3318
nutritional value 1894	pruning and training 5110	application, economics 4153
pest resistance, <i>Phylloxera</i> spp. 5825,	redox regime 3590	persistence, hexachlorobutodiene 2724
7577 Baratii 8538	shoot temperature 5835	residues 3328 plant, dimethoate 5863
Razaki 8528	testing, electrical conductivity 6726 varieties 1098	intercropping 7560
sex inheritance 5824	water content 5111, 8566	strawberry 544
statistical design of trials 2706	fruiting	irradiation, gamma rays, mutation
winter hardiness 555	date	induction 7545
calcium, content, disease incidence 1913 carbohydrates	forecasting, temperature sums 2379	irrigation 6768
biosynthesis, propagation methods	temperature, India 1124	automatic 4344
1092	fungicides 3320	fruit
content	application, methods compared,	composition 6737
fruit, ripening 8573	benomyl 1917	quality 2714
seasonal variations 1929	fruit	furrow 1905, 3571
metabolism, minor element nutrition	acidity, RH 90 3579 set, bordeaux mixture 6755	methods compared 3571 photosynthesis 4344
1113	injury	requirements
translocation 1926	chinosol 7553	determination 6736
catechols	dinocap 1914	varietal differences 1925
degradation 5879	mixtures, Foltapet 1116	root, growth 2714
determination, fruit 5879	residues	soil, compaction 1106
cell sap	determination, dichlozoline 6758	spray 4344
concentration	fruit	sprinkler 3571
frost resistance 5110	benomyl 1698	sub-surface 1905, 3571
irrigation requirements 6736	dichlozoline 6758	transpiration, diurnal variations 6737
nutrient solution, concentration	Foltapet 1116	lead, content, fruit, air pollution 5837
6749 chlorophyll, content, leaf, position 5864	Sclex 1924 yield increase, RH 90 3579	light intensity
climate	genetics	fruit, sugars, content 564
disease incidence, Uncinula necator	flower, sex 5106	photosynthesis 7325
5860	fruit, size 8527	pruning and training 5834
German Federal Republic 3562	growing	ultra-violet, pest resistance 7577
cover crops 1106, 7560	Argentina 1707	magnesium, content, disease incidence
disorder incidence, stalk necrosis 7560	Bulgaria 1079	1913
defoliation, growth substances,	German Federal Republic 113	mulching 7560
endogenous 7586	in greenhouses, pollen viability 6762	straw 5847
dormancy 7584	India 1892	mutants 7545 induction 7545
growth substances, endogenous 8568 drought	industrial-scale production, Hungary 4334	nitrogen
resistance, evaluation techniques 6727	Italy 551, 1086	content
root, systems 6745	mechanization, Switzerland 5104	leaf, soilless culture 6749
earthing-up 6739	under plastic 1097	plant, storage 5830
uncovering, equipment 8540	Europe 1099	metabolism
economics	Rhodesia 8526	molybdenum nutrition 1112
insecticides, application, Italy 4153	Switzerland 2705	phosphorus 7581
mechanization, Switzerland 5104	terraced slopes 6746	nutrient absorption 1912
enzyme activity 1119	tropics 3569	nitrogen nutrition 6747
frost resistance 5138 fruit	USA, for wine 4335	phosphorus nutrition 6747
growth substances, GA 1122	Venezuela 8119 growth	nutrients, content, nutrient solution, concentration 6749
pH 1118	records, computer analysis 552	organic acids, determination, fruit 7593
temperature 1118	studies 585	ozone, injury 6728
leaf	growth rhythm 7584	phosphorus
manganese nutrition 1111	growth-yield relationships 5120	absorption, nitrogen metabolism 5866
plant nutrient status 5138	grubbing	content, leaf, soilless culture 6749
temperature 5138	arboricides	metabolism, nitrogen 7581
water relations 5138	chloramp 581	photoperiodism
molybdenum nutrition 1112	Dianat 581	growth substances, endogenous 6759
propagation methods 1092 shoot, temperature 5138	hail damage	photosynthesis 2725 water relations 2725
enzymes, determination, fruit 1118, 5146	prevention	photosynthates
flooding, varietal tolerance 5848	leaf cover 5836	translocation 5865
flowering	nets 8355	growth substances 8567
date	economics 8356	photosynthesis 2725, 5865, 7325
forecasting, temperature sums 2379	harvesting	diurnal fluctuations 5864
growth substances 7589	labour requirements, pruning and	irrigation 4344
aminozide 4357	training 6743	manganese nutrition 1111
Italy 586	mechanical 4359	optimal leaf area 5823
light 586	economics 5144	osmotic pressure, nutrient solution,
pruning and training 572 temperature 586	fruit, storage, juice quality 595	soilless culture 6749
frost	peduncle length 1126, 1895 pneumatic suction 819	propagation methods 1092 seasonal variations 5864
damaged plants, pruning and training	pruning and training 5143, 5845	sunlight utilization 8565
1098	review 6766	physiology, book 582
injury	shakers 570, 819, 5143	planting
critical temperatures 4159	herbicides	material, treatment, bactericides 7571
position on slope 5112	application, methods compared,	plant size 560
recovery 7559	Oxadiazone 7561	Siberia 563
slope orientation 5112	injury 3570	spacing 6722, 6743, 7558, 8537
thawing rate 4342	aminotriazole 5839	pruning and training 6743
protection earthing-up 7559	atrazine 6735	root secretion, composition 7583
earthing up, mechanical 3573	chlorthiamid 6735 diuron 6735	pollen, viability 6762
resistance	simazine 5839	pollination artificial 5142
carbohydrates, content 1929	triazine 6733	cross- and self- compared 5142
cell sap concentration 5110	tolerance	polyploids, pollen, viability 6762
enzyme activity 5138	atrazine 5839	potassium, content, leaf, soilless culture
proteins, content 1927	2,4-D 5839	6749

Grapevine contd.	Grapevine contd.	Grapevine diseases contd.
proteins	sap	alfalfa mosaic 7570
biosynthesis fruit 7587	amino acids, content, plant nutrition 6748	Armillaria mellea, soil fumigation 7573
leaf 7587	composition, plant nutrition 6761	Aspergillus amstelodami 579 A. fumigatus 579
content	sap rise, rootstock-scion relationships	A. violaceo-fuscus 7574
frost, resistance 1927	2726	Australia 6518
leaf, soilless culture 6749	snow, cover, potential water reserve 8541	bacterial canker, USSR 5855
pruning and training 1102, 4345	soilless culture	book 1689
bud, break 568	nitrogen 5852	Botryotinia fuckeliana, control 8482
Casarsa system 1910	nutrient solution, concentration 6749	Botrytis cinerea 578–580, 1115, 1915,
cell sap concentration 5110	nutritional studies, equipment 5121	1917, 2723, 3583, 7574
chemical 1125	spraying equipment	control 7575 growth substances 512
climate, microclimate 1096	duster 5135	graftwood storage 3568
economics 8546	low-volume 5136	pruning and training 6743
fan, shoots per plant 8544 flowering, date 572	mist blower 5135	spore numbers 5858
frost, resistance 5110	types compared 7580	storage diseases 1916
frost damaged plants 1098	staking	Botrytis spp. 3579, 8558 Bratislava mosaic virus, Czechoslovakia
fruit	Lannea grandis trees 6744 methods compared 6744	577
bunch	stomata	Cercospora spp., control 8559
size 5120	number, varietal differences 6715	C. viticola, pruning and training 569
weight 568, 572, 5843	structure 8573	C. vitis 5859
composition 3574	sugars, content, shoot, water relations	Cladosporium spp., spore numbers 5858
ripening 572, 3574	5867	Coniothyrium diplodiella, rachis
size 5843	sunlight, utilization, photosynthesis 8565 temperature	desiccation 1117 court-noué, transpiration 2722
sugar content 572 Guyot 6742	bud break 583	decline
sugars, content 8550	fruit, acidity 1081, 6725	disease complex 6756
varietal behaviour 5826	of fruit, environmental factors 7582	USA 5854
labour requirements 571, 8546	fruit	Elsinoë ampelina, control 8559
leaf, nutrients, content 2727	pigments, biosynthesis 3595	Elsinoë ampelina, pruning and training
light intensity 5834	ripening 6725 set, time from flowering 587	569 Erwinia vitivora, planting material,
mechanical 3573, 6739	of fruit, transpiration 7582	treatment 7571
annual report, USA 3516	of leaf	fanleaf, vectors, control 5133
mechanical harvesting 570, 4346, 5143	environmental factors 7582	fanleaf virus, Czechoslovakia 577
methods compared 1101, 1103–1104, 1909, 2717–2718, 3575-3576,	transpiration 7582	fruit rots, rainfall 6768
4347-4348, 5117, 5844, 6741, 6765,	under plastic covers 1097 rainfall, correlation, fruit yield 562	Gloeosporium ampelophagum, control 6754
7562–7563, 8545, 8547–8548	sums 557	grape stalk necrosis 2720–2721
disease incidence 569	terraces, construction 5832–5833	leaf curl, tissue culture, shoot-tip culture,
palmette 5846	tissue culture	heat treatment 7554
pinching 5843	callus, grafting compatibility studies	leafroll virus, Czechoslovakia 577
fruit, composition 2715	3567	Leptosphaera spp., spore numbers 5858
recommendations 1926	meristem, virus-free plants 7554	mosaic, tissue culture, shoot-tip culture,
shoot direction 4353 shoot length 8549	shoot 1930, 2552 shoot-tip, virus-free plants 7554	hèat treatment 7554 Penicillium spp. 579
varietal behaviour 6740	transpiration	storage diseases 1916
stem height, sugars, content 8550	diurnal variations, irrigation 6737	Peronospora spp. 3579
time of 6765	temperature of fruit 7582	fungicides, application, time, fruit set
tipping 5116	temperature of leaf 7582	6755
trellis systems 6743 two-armed cordon 6742	virus infection 2722 water use efficiency, varietal differences	resistance, breeding and selection 435 Phomopsis viticola, control 8560–8562
varietal behaviour 2716, 3572, 4348,	1925	Phyllosticta prunicola 6657
8547	water, supply, snow cover 8541	Phytophthora cinnamomi 7576
vertical cordon 5845	water relations 2725	incidence, South Africa 5130
rainfall	osmotic pressure, nutrient solution,	Plasmopara spp., spore numbers 5858
fruit set, time from flowering 587	soilless culture 6749	P. viticola
temperature, correlation, fruit yield 562	shoot, sugars, content 5867 weed control 452, 566, 1902–1904, 1906,	incidence, foliar nutrition, minor elements 7568
regeneration, replanting compared 565	3570, 4343, 5113, 5680, 5839–5841,	resistance, breeding and selection 582
replanting	6729, 6733-6735, 7560-7561, 8542	Pseudopeziza tracheiphila 5131
regeneration compared *565	Convolvulus spp. 5838-5839,	Pythium spp. 6756
soil	6731-6732, 7561	Rhacodiella vitis
fumigation	Cynodon spp. 1100, 6731, 7561	control 6757 graftwood storage 3568
fungus control 7573 nematode control 7573	methods compared 5839, 6730, 6732, 8543	shoot necrosis virus, Czechoslovakia 57
micro-organisms 1105	Ranunculus spp. 5839	storage diseases, control 9106
report, Australia 6712	Stellaria spp. 6730	tomato ringspot, USA 5854
respiration	weeds, as ground cover plants 7560	Uncinula necator 1914, 1918, 2723
leaf	wind, protection, plastic films 1901	control 7580, 8482
diurnal fluctuations 5864 plant nutrition 5138	winter hardiness, varietal differences 7551, 7559, 8539	incidence, foliar nutrition, minor elements 7568
seasonal variations 5864	yield, rainfall, temperature, correlation	resistance, breeding and selection 582
temperature 5138	562	Switzerland 5860
water relations 5138	zinc, toxicity 7567	varietal resistance 3584, 7546, 8563
nitrogen 7581	Grapevine bud	USA 5127
physiology 7581 root 5137, 5866, 7581	break chilling 583	various, varietal resistance 7551 veinbanding virus, Czechoslovakia 577
plant nutrition 5866	growth substances, GA 583	virus
ringing	nodal position 556	colloquium 5853
flower bud	pruning and training 568	German Federal Republic 3581
fruiting potential 3592	composition 594	identification 3581
initiation 3592	dormancy 7584	review 3582, 5128
fruit bunch size 3593	position fruiting potential 5119	Xanthomonas vitis-viniferae, India 7572 yellow speckle virus 575
ripening 3593	shoot growth 5119	yellow vein 8556
size 3593	Grapevine diseases	Grapevine disorders
growth substances, endogenous 1928,	Agrobacterium tumefaciens	blossom-end rot, plant analysis 1913
7586	host-pathogen relationships 5856–5857	book 1689
time of 8570	varietal resistance 5857, 8557	brown leaf 6728

Grapevine disorders contd.	Grapevine fruit contd.	Grapevine fruit contd.
chlorosis 3580	development 1120	size contd.
amino acids 6750 iron nutrition 4947, 7569	growth substances 5141 time, climatic factors 591	growth substances <i>contd</i> . GA 1122, 3591, 3593, 3596, 4354
lime-induced, rootstock resistance	varietal differences 6763	pruning and training 5117, 5843
1107	drop 8555	ringing 3593, 8570
respiration 5137	growth substances, GA 3594	skin, composition 7595
soil index 1107	flavonols, determination 5875	stem, phenols, content 1931
coulure, control, growth substances	iron, content 3580	storage
5125, 5872 stalk atrophy, green manures 3577	lead, determination 1128 -leaf, relationships 1926	alcohol, production, sulphur dioxide, treatment 595
stalk desiccation	loosening, growth substances, GA, NAA	container, depth, sulphur dioxide,
calcium nutrition 5126	2731	treatment 596
magnesium nutrition 5126	maturity, growth substances, GA, NAA	containers, liners 3599
stalk necrosis, incidence, cover crops 7560	2731 morphology, varietal differences 6763	diseases, control 9106
storage scald 518	number, growth substances, GA 3593	harvesting, mechanical, juice quality
Grapevine flower	number per bunch, growth substances	595 juice composition 1129
bud development 1120	5871	methods compared 7590
bud distribution on canes 1124 growth substances 6760	nutrients, content 7595 nutritional value	pre-cooling 5145
bud fruiting potential	organic acids 1894	sulphur dioxide 7426
anatomical studies 2716	sugars 1894	application
nodal position 3572	vitamins 1894	container generators 3599
NPK nutrition 3578 pruning and training 3576, 5117	organic acids content	potassium metabisulphite 595 injury 1916
ringing 3592	irrigation 6737	treatment 596
bud initiation	ripening 7592	varietal behaviour 5874
boron nutrition 5122	seasonal variations 6522	volatile acids, production, sulphur
nodal position 556 ringing 3592	determination 7593	dioxide, treatment 595 sugars
varietal differences 1124	container, depth 596	content 1103
composition 594	containers, types compared 7590	boron nutrition 5122
development, growth substances 5141	parthenocarpy	fruit, ripening 5878
drop, boron nutrition 5122	growth substances 7589, 8574 GA 3594	growth substances 5872, 8572 chlormequat 2727, 6764
sex growth substances 5869	peduncle, length, mechanical harvesting	iodine nutrition 8553
inheritance 5824	1126	iron nutrition 3580
Grapevine fruit	phenolic compounds	irrigation 6737
acidity	content, varietal differences 3601	light, intensity 564
growth substances 8572 GA 3597	determination 7594 fruit ripening 3600	phosphorus nutrition 7565 pruning 5117, 5844, 7563, 8545
NAA 2731	phenols, content 1931	pruning and training 572,
potassium nutrition 1127	phosphorus, content, iron nutrition 3580	1101–1102, 8550
pruning and training 1102, 5116	pigments 5691	ripening 7592
temperature 1081, 6725 anatomy 8573	biosynthesis, temperature 3595 processing, freezing, varietal behaviour	seasonal variations 6522 sulphur dioxide, application, storage
berry, thinning 590	3598	7462
bunch	proteins	thinning
number, growth substances,	content 7595	growth substances, GA 588
chlormequat 6764 shape 6767	determination 4360 quality	time of 7588 transport
growth substances 2729	growth substances 8575	chutes 4358
chlormequat 4356	irrigation 2714	containers, refrigerated 7426
GA 4356	nitrogen nutrition 8552	damage 7307
ringing 8570 size	pruning and training 1102, 8550 ripening	suitability, breeding and selection 75- sulphur dioxide treatment 7307
calcium nutrition 593	carbohydrates 8573	vitamins, content 1894
growth substances 5872-5873, 8574	fruit composition 5878	volatile constituents, content, fruit,
aminozide 3591	growth substances 8572, 8574	ripening 5878
chlormequat 6764 endogenous, cytokinin 5140	aminozide 4357 endogenous 7586	yeasts on surface 5876 Grapevine growth substances
GA 593, 3591, 3593	GA 3593, 5870	bud break, GA 583
pruning and training 5117,	organic acids, content 7592	carbohydrates, metabolism, GA 3596
5843-5844 singing 3503 8570	phenolic compounds 3600	disease control, chlormequat 5129
ringing 3593, 8570 shoot growth 5120	pruning and training 572, 3574 ringing 3593	disorder control, chlormequat 5125 disorder incidence, chlormequat 5872
thinning, fruit, size 589	root, composition 1123	endogenous
weight, pruning and training 568, 572	sugars, content 7592	cuttings, translocation 1091
bunch size, nitrogen nutrition 8552 carbohydrates 8573	temperature 6725 sampling, methods, wine 597	defoliation 7586 fruit 592
content 7595	set	ripening 7586
metabolism, growth substances, GA	fungicides, application time 6755	set 7586
3596	growth substances 4356, 5141	plant
catechols 5879 colour, seed abortion 5870	aminozide 2730, 4355 chlormequat 6764	dormancy 8568
composition 594	endogenous 7586	photoperiodism 6759 seasonal variations 8568
analysis methods, wine 597	light intensity 4353, 5836	ringing 1928, 7586
enzymes 1118	pollination 5142	sap 5140
growth substances 2731, 5871 aminozide 4355	pruning and training 4353 time from flowering	shoot 1121 enzyme activity, GA 1122
GA 3597	rainfall 587	flower
NAA 2731	temperature 587	development
irrigation 6737	varietal differences, Italy 587	adenine sulphate 5141
pruning and training 2715, 3574 ringing 8570	shape 6767 growth substances 2729	BA 5141 sex, cytokinin 5869
seasonal variations 5877	GA 3594	flower bud
cracking	size	distribution, chlormequat 6760
growth substances 5871 rainfall 6768	bunch, thinning • 589	number, chlormequat 6760
damage	genetic studies 8527 growth substances 2729, 4356,	flowering date
rainfall 6768	5872–5873, 7589, 8575	aminozide 4357
storage, methods compared 596	aminozide 3591, 4355, 4357	GA 7589

Gi

ojeci macx		101
apevine growth substances contd.	Grapevine leaf	Grapevine nutrition contd.
fruit acidity	area 5118	manganese contd.
GA 2731, 3597, 8572	measurement 4349 photosynthesis 5823	enzyme activity 1111, 5138 photosynthesis 1111
NAA 2731	plant, dry matter accumulation 7585	plant, anatomy 5105
bunch number, chlormequat 6764	calcium, contents, zinc nutrition 1912	respiration 5138
bunch shape chlormequat 4356, 5872	carbohydrates, content, growth substances 8569	minor elements 1108, 2719 application, foliar 7568
GA 2729, 4356	chlorophyll	leaf analysis 1108
bunch size	content	soil analysis 1108
aminozide 3591 chlormequat 6764	growth substances, chlormequat 1125	molybdenum, nitrogen metabolism 1112 nitrogen 3579, 6747, 7565
GA 593, 3591, 3593, 5873, 8574	iron nutrition 3580	application, foliar 8552
composition	copper content, phosphorus nutrition 6751	flower bud, fruiting potential 3578 fruit
aminozide 4355 chlormequat 2727, 5871	seasonal variations 6752	bunch size 8552
GA 2731, 3597, 5871	development 5118	quality 8552
NAA 2731	fall copper content 6752	leaf analysis, petiole analysis compared 8551
cracking, GA, chlormequat 5871	phosphorus nutrition 6751	petiole analysis, leaf analysis compared
development adenine sulphate 5141	-fruit relationships 1926 iron, contents, zinc nutrition 1912	8551 soilless culture 5852
BA 5141	metabolism, pest incidence, <i>Phylloxera</i>	sources, urea 8552
drop, GA 3594	vastatrix 7579	NPK 1109-1110, 5850
growth, GA 592 loosening	nitrogen, seasonal variations 6752 nutrients	sap amino acids, content 6748
GA 2731	content	composition 6761
NAA 2731	growth substances 8569	nutrients, content 6748
maturity GA 2731	chlormequat 2727 pruning and training 2727	Nutrifix 573 organic fertilizers 5850
NAA 2731	phosphorus	phosphorus 6747, 7565
number, GA 3593	contents, zinc nutrition 1912	copper content 6751
number per bunch chlormequat 5871	seasonal variations 6752 removal, plant metabolism 7585	copper toxicity 6753
GA 5871	size, growth substances, chlormequat	flower bud, fruiting potential 3578 leaf, fall 6751
parthenocarpy, GA 3594, 7589, 8574	1125	leaf analysis, petiole analysis compared
quality, aminozide 8575	suction pressure, irrigation requirements 6736	8551
ripening aminozide 4357	temperature, photosynthesis 7325	petiole analysis, leaf analysis compared 8551
GA 3593, 5870, 8572, 8574	Grapevine nutrition 1114	plant analysis 7566
set	aluminium, toxicity 576 boron 593	requirements 5849
adenine sulphate 5141 aminozide 2730, 4355	carbohydrates, metabolism 1113	sources, compared 7566 potassium 7565
BA 5141	enzyme activity 5138	deficiency 864
chlormequat 4356, 6764 GA 4356	flower, drop 5122 flower bud, initiation 5122	flower bud, fruiting potential 3578 fruit, acidity 1127
shape, GA 2729, 3594	plant, anatomy 5105	leaf analysis, petiole analysis compared
size	respiration 5138	8551
aminozide 3591, 4355, 4357, 8575 chlormequat 4356, 5872	sugars, content 5122 calcium	petiole analysis, leaf analysis compared 8551
GA 1122, 2729, 3591, 3593, 4354,	disorder incidence, stalk desiccation	requirements 5849
4356, 5873, 7589	5126	town compost 1911
sugars, content, chlormequat 5872, 6764	fruit, bunch size 593 leaf analysis, petiole analysis compared	trace elements, soilless culture, equipmen 5121
thinning, GA 588	8551	zinc
fruiting, GA 593	petiole analysis, leaf analysis compared	application, foliar 1912
growth reduction aminozide 4355	8551 copper, toxicity 6753	carbohydrates, metabolism 1113 plant, anatomy 5105
chlormequat 5872, 6760	economics 5851	Grapevine pests
injury	fertilizers 3577	Argyrotaenia pulchellana 580 Australia 6518
aminozide 8575 GA 2732	amides, biosynthesis, translocation 5868	birds 3589
interaction, applied and endogenous 592	amino acids, biosynthesis, translocation	Desmia funeralis 1922
internode length, chlormequat 1125	5868 FYM 3577	biological control 1922 Empoasca flavescens 3587
leaf carbohydrates content	general	Eotetranychus willamettei 1920
aminozide 8569	deficiency, diagnosis 1114	predator-prey relationships 1920
chlormequat 8569 MH 8569	plant analysis, blossom-end rot 1913 green manures 3577	Eriophyes vitis 5134 Erythroneura ziczac
Phosfon D 8569	iodine	parasites, Anagrus epos 5861
TIBA 8569	fruit, sugars, content 8553	varietal resistance 5861
chlorophyll, content, chlormequat	iron absorption 8553 shoot, sugars, content 8553	Eupoecilia ambiguella 4351 Hemicriconemoides chitwoodi
nutrients content	iron	hosts 5132
aminozide 8569	absorption, iodine nutrition 8553	incidence 5132
chlormequat 2727, 8569 MH 8569	application foliar 3580	integrated control 4350 Lobesia botrana 4351
Phosphon D 8569	methods compared 7569	Macroposthonia xenoplax 1919
TIBA 8569	chlorosis 4947, 7569	Meloidogyne incognita, soil fumigation
size, chlormequat 1125 phloem, formation, GA 4354	sources, compared 3580 magnesium	7573 mites, biological control 29
photosynthates, translocations, BA 8567	disorder incidence, stalk desiccation	nematodes, rootstock resistance 8534
proteins, biosynthesis, inhibition,	5126	Oligonychus mangiferus 3585
chloramphenicol 1927 responses, chlormequat, review 8310	leaf analysis, petiole analysis compared 8551	Otiorrhynchus asphaltinus 1923 Panonychus ulmi, population studies,
rooting, IBA 2713	petiole analysis, leaf analysis compared	fungicides 3586
seed	8551	Phylloxera spp.
germination, inhibition, GA 3566 treatment, GA 3566	requirements 5849 major elements 1108, 2719	arboricides 581 control 7578
shoot	leaf analysis 1108	cultural methods 6723
growth	soil analysis 1108	host cytology 8564
aminozide 2730, 4357 chlormequat 6764	manganese 5124 carbohydrates, metabolism 1113	resistance 7577 breeding and selection 5825
Uniormequal 0704	barbonydrates, metabonsin 1115	orecame and selection 3023

Cito so-td	Chanazina propagation contd	Grapevine soil
Grapevine pests contd.	Grapevine propagation contd.	
Phylloxera spp. contd.	nurseries	amendments
rootstock resistance 6721	economics 553	compost 5847
varietal resistance 8564	labour requirements 553	gypsum 1106
P. vastatrix	shoot, storage, growth substances, activity	peat compost 5850
book, historical 574	1121	wood chips 1106
leaf metabolism 7579	shoot-tip culture 8536	cultivation
P. vitifoliae 2724	virus-free plants 7554	depth 5842
integrated control 1921	Grapevine root	root growth 5114
population survey, South Africa 4352	anatomy, growth studies 7544	hoeing machine 1907
predators, Trombidium spp. 1921	development, soil cultivation 6738	machines 1908
resistance 2728	growth	methods compared 5115, 6738
Prodecatoma cooki 3588	anatomical studies 7544	erosion 6733
Pseudococcus maritimus 5862	inhibition, zinc 7567	herbicide-contaminated soil 6733
review, Bolivia 5671	irrigation 2714	fumigation
Tetranychus pacificus 1920	seasonal variations 5114	Armillaria mellea
predator-prey relationships 1920	soil, cultivation depth 5114, 5842	chloropicrin 7573
T. telarius, control 7580		1,3-D 7573
USA 5127	nitrogen	methyl bromide 7573
Xiphinema index	content	Meloidogyne incognita
soil fumigation 7573	fruit ripening 1123	chloropicrin 7573
vectors, fanleaf 5133	zinc nutrition 1912	1,3-D 7573
Grapevine plant	respiration 5137	methyl bromide 7573
anatomy, nutrition 5105	secretion, composition 7583	nematode control
storage	-shoot relationships, growth studies 7564	carbon disulphide 8534
cold, nitrogen, content 5830	systems 6745, 7564	1,3-D 8534
plastic bags, nitrogen, content 5830	pest control, <i>Phylloxera</i> spp. 6723	methyl bromide 8534
sand, nitrogen, content 5830	Grapevine rootstocks	Xiphinema index
Grapevine propagation	Berlandieri × Riparia Kober 5BB 6716	chloropicrin 7573
annual report, Canada 2669	Chasselas × Berlandieri 41B 6716	1,3-D 5133, 7573
budding	chlorosis resistance 1107	methyl bromide 5133, 7573
bud wood, position on source plant	comparative trials 6745, 7557, 8535	management, methods compared 1906,
1093	Israel 4341	7560
height 1093	South Africa 4340	micro-organisms, replanting 1105
cuttings 561, 563	disease incidence	moisture
growing rooms 5139		soil management 5848
nutrition	Phytophthora cinnamomi 5130	varietal behaviour 5848
aluminium toxicity 576	Uncinula necator 5860	removal, equipment 8540
boron 5123	disease resistance, Phytophthora	salinity, plant tolerance 8554
pest control 6723	cinnamomi 7576	Grapevine varieties
physiology 1092	nematode resistance 8534	Aligoté 6722
in plastic sleeves 6723	own-rooted plants compared 4341	Australia 8531
polarity 1091	pest resistance, <i>Phylloxera</i> spp. 6721	Bacchus 1080
shoot	propagation, cuttings, root formation at	Blaufränkisch, rootstock relationships
carbohydrates content 6719	internodes 5831	7557
nitrogen content 6719	-scion relationships 4341	B''lgariya 1896
part 1089	carbohydrates, metabolism 1113	Bolgar, abnormal fruits 6767
source plants	growth substances, activity 5140	Bruni 485 4338
defoliation	incompatibility 6745	Cabernet Sauvignon 6722
root formation 1090	pollen, viability 6762	clonal variation 2711
shoot formation 1090	sap rise 2726	Cayuga White 5108, 7551
side shoot removal	shoot, growth 6743	Champagne 558
root formation 1090	soil fumigation 8534	comparative studies, USSR 7548
shoot formation 1090	Vitis berlandieri, hybrids 1095	comparative trials
storage 561, 1900	V. champini, varieties 1095	Bulgaria 2708, 6716
under plastic 1087	Grapevine seed	USA 2709
time 1089	abortion 5870	Convent Large White 559
treatment	development 1120	Delaware, variant strain 8574
boron 5123	dormancy, breaking 6718	dessert 5107, 5828, 8531
growth substances 2713	germination 1088	disease resistance 1932, 7551
IAA 1091, 1899–1900	inhibition, growth substances, GA	Agrobacterium tumefaciens 5857, 8557
paraffin 7555	3566	Uncinula necator 3584, 7546, 8563
stratification 1899	number per fruit, fruit ripening 5870	early harvesting 8530
grafting 563	phenols, content 1931	Ehrenfelser 1080
bench grafting, stratification units	treatment	Faber 1080
8533	cold 3566	flowering, date, Italy 586
bench grafts	growth substances 6718	Forta 1080
planting, methods compared 6724	GA 3566	Freisamer 1080
root formation 5831	running water 6718	frost resistance 1098, 5111
graft storage	stratification 3566, 6718	protoplasmic properties 8539
fungicide treatment 3568, 7553	Grapevine shoot amino acids, content 1112	fruit
temperature 1094 graft treatment		development 6763
fungicides 7556	anatomy, growth studies 7544 bud fruiting potential 8571	development time 591
paraffin 6724, 7556	pruning and training 8545	morphology 6763 phenolic compounds, content 3601
growing rooms 5139	carbohydrates	set, time from flowering, Italy 587
mechanical 6724	content, minor element nutrition 1113	Fry 3564
methods compared 1092	metabolism, minor element nutrition	Germany 1080
physiology 1092	1113	Golden City 3565
on to roots of established plants 565	flower bud distribution 567	Goruli Mtsvane 4336
rootstocks	growth	Greece 8530
anatomy 6720	anatomical studies 7544	growth substances, responses 3591
storage 7553	bud position 5119	identification
rootstocks treatment	temperature 584	leaves, nursery 7550
fungicides 7553	length	shoots, nursery 7550, 8532
water 7553	light intensity 4353	India 2707, 5827
scions	pruning and training 4353	Italy 1086, 4337
anatomy 6720	sugars, content, iodine nutrition 8553	Jakaranda 3565
storage 7553	temperature, fluctuations, frost resistance	Jumbo 3564
scions treatment	5835	Kanzler 1080
fungicides 7553	water content	Karaburnu 4345
water 7553	frost resistance 5111, 8566	Kerner 1080
work studies 4339	seasonal variations 8566	Lakemont 5829, 7551

Subject Index		101
Grapevine varieties contd.	Greenhouse contd.	Greenhouse contd.
Mai 2712	climate contd.	"Venlo" type contd.
male sterile 3563 Mariensteiner 1080	vegetables, annual report, UK 6774 construction	temperature 8302
Misket Plevenski 6717	concrete specifications 8301	ventilation 3311 annual report, UK 2487
Noble 1898	dimensions	anthurium, annual report, Netherlands
Nobling 1080	ornamental plants 8300	704
Optima 1080	vegetables 8300	ethylene pollution 8304
peduncle length, mechanical harvesting	foundation specifications 8301	wind pressure on, annual report, UK
1126, 1895 pest resistance 1932	metal corrosion 4926 metal specification 4926	2487 Greenhouse crops
Erythroneura ziczac 5861	timber specifications 8301	air pollution
Phylloxera spp. 7577, 8564	control systems	plant responses
Plovdiv 2 7552	carbon dioxide, supplementary 886	nitrogen dioxide 7296
Pride 1085, 3564 processing, freezing 3598	symposium 3296 covering, plastic, annual report, UK	olefines 7296
pruning and training 2716, 3572, 5826,	2487	sulphur dioxide, ethylene, injury 6132
8547	design 442	containers, high density planting, vegetables, annual report, Irish
Rabaner 1080	annual report, Netherlands 5	Republic 5150
Razaki, selection 8528 register, USA 3356, 4156	for seedling production 6493 disinfection, formaldehyde, disease	ethylene, injury, prevention 8304
Rizling B"lgarski 1082	incidence, Fusarium oxysporum, f.	growing, mechanization 1974
Rumania 8538	lycopersici 7795	irrigation, trickle 1046
Sauvignon Vert 5848	equipment, soil, temperature, tomato 678	light
St. Laurent, pruning and training 2717 stomata, number 6715	glass cleaning	photosynthesis 5683
storage behaviour 5874	annual report	respiration 5683
Suffolk Red 5829, 7551	Netherlands 5	supplementary 1334
Switzerland 2710	UK 2487	source, natural gas, plant injury
Trakijski Biser 1082	handling produce, annual report, UK 2487	2498
Trakiya 1897 Tunisia 4155	heat loss, comparative studies, annual	nutrition, fertilizers, liquid 4132 pests, <i>Trialeurodes vaporariorum</i> 2503,
USSR 1893	report, Irish Republic 6482	6500
Vernatsch, clonal selection 8529	heat retention, "Venlo" type 441	physiology, symposium 3296
Voĭvodinovo 1084 Voĭvodinovo 2 5109	heating	sulphur dioxide, injury 7296
wine 557, 4336-4337, 4361, 5108, 5826,	infra-red 4134 systems	temperature photosynthesis 5683
7549	annual report, UK 2487	respiration 5683
Bulgaria 1083	economics 1685	Grevillea spp., pruning and training,
fruit, composition 1081 proteins 7591	ethylene pollution 8304	container-grown 2275
USA 4335	tomato, annual report, UK 5884 irrigation	Grewia spp. propagation
winter hardiness 7551, 7559	control	cuttings
USA 3358	automatic 4135	treatment
Graphium spp., epiphytes, apple 955	electric 883	growth substances
Graphognathus spp. 19 Grapholitha funebrana	Klimatair, climate, control 882 light	IAA 1011 IBA 1011
biological control, plum pests 6660	control, flowering, greenhouse crops	sugars 1011
plum pests 6660	8841	Grindelia spp., aromatic resins 8025
G. molesta, control, peach pests 7448 Grasses	economics, annual report, Netherlands	Ground cover surveys
as weeds	intensity, "Venlo" type 5799, 8303	photographic
tomato 6069	supplementary, source, natural gas	citrus, annual report, USA 791
vegetables 1946	2498	melon (cantaloup and musk) annual
Green manures apple nutrition 936	transmission 2499 annual report, UK 2487	report, USA 600 onion, annual report, USA 600
Crotalaria spp., sugar cane 8215	orientation, tomato, annual report, UK	Ground cover plants
frost resistance, apple 6538	5884	growing
fruit, size, apple 6550	plastic 6496	in containers 8848
irrigation, cabbage 1165 lupin, apple 8374	annual report, Austria 114 and conventional compared	Florida 5388 growth retardants 6157
mustard, apple 8374	annual report, Austria 265	herbicides, injury 1323
pear nutrition 936	lettuce 1686	legumes
root, growth, apple 1739	light transmission 2499	coffee, weed control 7190
rose 6267 trunk, girth, apple 6550	strawberry 1686 designs, annual report, Netherlands 5	rubber 4881 roadside, annual report, USA 2152
types compared, vegetables 5889	Finland 2738	transport 8848
Greenhouse	fire incidents 6496	weed control in 710
age, survey, Norway 4133	mushroom growing 8833	Growing rooms
air conditioning	overwintering, nursery stock, annual report, Canada 8836	lettuce, annual report, UK 6773 light, sources, grapevine 5139
control, light-dependent 5683	pneumatic 14-15	vegetables, annual report, UK 6774
equipment 442	seedling raising, vegetables 5338	Growth chambers 3296
pollution	Sweden 2738 soil, sterilization, equipment 2488	climate, control 879, 8293 commercial crop production, radish
heating fuels 7296 supplementary carbon dioxide	solar radiation, review 7295	5201, 6802
production 7296	temperature	construction, fruit trees and plants 4152
bench, design, pot plants 2169	control	design 6825
carbon dioxide	annual report, Belgium 4925 light-dependent 5683	review 8294
supplementary control systems 886	"Venlo" type 8302	tissue culture and seedlings 873 design of trials 4129
natural gas burners 1688	transport	environmental studies
production, ethylene pollution 8304	annual report, Netherlands 5, 7285	mushroom, annual report, UK 6774
climate	conveyor belt, pot plants 6965	squash 6825
control 1974, 2497 annual report	types book 2497	leaf production dill 8617
Italy 6960	tomato, annual report, UK 5884	vegetables 8617
Netherlands 5, 7285	types compared 3312	light distribution, cucumber and gherkin
automation, annual report, Netherlands 5	economics 1684 "Venlo" type 441	operation, fruit trees and plants 4152
electric 883	climate, control 6494	plant composition
mathematical model 7294	economics 1684	dill 8617
symposium 3296	light intensity 5799, 8303	vegetables 8617

rowth chambers contd.	Growth substances contd.	Growth substances contd.
plant variability, cucumber and gherkin 7689	application contd. methods contd.	bulb contd. storage contd.
root, temperature, control, equipment	chlormequat	root growth, MH, onion 3769
4920	okra 7758	shoot growth, MH, onion, annual
temperature distribution, cucumber and gherkin 7689	vegetables 5198 ethephon, rubber 8184	report, Cyprus 3604 bulblet formation, BA, onion 1249
Frowth studies	GA, rhubarb 1937	calcium, translocation, TIBA, apple 961
mathematical model 8296	morphactins, coleus 1349	cambial activity, root, various, turnip
microclimate 8296 photosynthates	with plant protectants, GA, citrus 5569	8629 cane
translocation, mathematical model	post-harvest	ripening
5675	2,4-D, pear 3500 ethephon, tomato 2134	aminozide, sugar cane 6449 chlormequat, sugar cane 6449, 926
utilization, mathematical model 5675	IAA, pear 3500	dalapon, sugar cane 9265
shoot, -root relationships, mathematical model 5676	2,4,5-T, pear 3500	ethephon, sugar cane 1652, 6449,
Frowth substances	small quantities aminozide, apple 5710	9265 GA, sugar cane 1652, 9265
absorption abscisic acid	2,4-D, apple 5710	MCPA, sugar cane 1652
apple 1777	surfactants aminozide, oleander 7059	TBA, sugar cane 1652 various, sugar cane, annual report,
lettuce 8609	chlormequat, ornamental plants	South Africa 7230
aminozide, apple, annual report, UK 903	8842	60-CS-160, sugar cane 6449
foliar	wax coatings aminozide, petunia 6152	carbohydrates accumulation
abscisic acid, fruit trees and plants	2,4-D, citrus 1506	chlormequat, mandarin and tangerin
2885 2,4-D	GA, apple 1797 assimilates	2398 GA, mandarin and tangerine 2398
fruit trees and plants 2885	translocation	kinetin, mandarin and tangerine
vegetables 2032	GA, carnation 6140	2398
NAA fruit trees and plants 2885	IAA, carnation 6140 bean, ripening, ethephon, coffee, annual	metabolism, GA, grapevine 3596 cell
orange 2401	report, Rhodesia 4829	development 2087
pear 3495 fruit	biennial bearing	auxins, radish 3673 BA, radish 3673
abscisic acid, tomato 2885	aminozide, pear 4279 chlormequat, pear 4279	division, inhibition, 2,4-D, pea 2065
2,4-D, tomato 2885	ethephon, mango 7204	expansion
NAA, tomato 2885 IAA, bean (<i>Phaseolus</i>) 8696	NAA, mandarin and tangerine 802 biosynthesis	2,4-D, pea 2066, 8727 GA, apricot 7425
leaf	cacao, cherelle wilt 384	IAA, pea 8727–8729
aminozide, chrysanthemum 4630	IAA, tomato 250, 2127	NAA, pea 8727 2,4,5-T, apricot 7425
NAA, pear 5054 phenoxyacetic acid and derivatives, pea	seed stratification, peach 4249 bolting	metabolism
225	GA, lettuce 5914	BAP, pumpkin 2780
root, IAA, bean (<i>Phaseolus</i>) 3714 SADH	MH, radish 5941 book 1671, 7280	.GA, pumpkin 2780 IAA, pumpkin 2780
adjuvants, Tween 20 5001	branching	water permeability
surfactants, bean (<i>Phaseolus</i>) 1218	BA 1225	aminozide, onion 4524
activity, cytokinins, shoot, storage, grapevine 1121	chrysanthemum 1335 poinsettia 2284	decenylsuccinic acid onion 5313
air-layering	6-benzylamino purines 2195	Rhoeo spp. 5313
treatment IBA	ethephon 2195 chrysanthemum 1335	cell wall composition
cashew 6396	poinsettia 2284	2,4-D, chicory 7623
guava 8160	GA, brussels sprouts 8631	IAA, pea 7735
mango 3226–3227 NAA	kinetin, poinsettia 4697 morphactins, chrysanthemum 8864	kinetin, pea 7735, 8730 chlorine, absorption, kinetin, bean
cashew 6396	PBA	(Phaseolus) 2027
mango 3227 alkaloids	chrysanthemum 1335 poinsettia 2284	chlorophyll biosynthesis
biosynthesis	TIBA 2195	CCC, lettuce 137
GA Atropa belladonna 8002	poinsettia 2284 bud	GA Atropa belladonna 8002
Datura spp. 8002	abscission, PCPA, pistachio 1039	Datura spp. 8002
Scopolia carniolica 8002	development	Scopolia carniolica 8002
content, GA, Atropa belladonna 7100 amino acids	CCC, pear 87 GA, pea 220	orthochlorophenoxyacetic acid, orchids 7029
absorption, root, chloramphenicol, pea	MH 220	content
1239	apple, annual report, UK 903	chlormequat, Vinca spp. 1442
metabolism, N-n-butyl-N'-aryl thiourea, radish 6803	black currant, annual report, UK 1856	ethephon, radish 7668 GA, lettuce 6789
anthocyanins, biosynthesis, inhibition,	Malus spp., annual report, UK	leaf, cytoquinine active compounds,
IAA, cabbage 8630 apical dominance	2155 NAA, olive 9113	bean (Phaseolus) 2799
BA, apple 965	initiation, aminozide, apple 6583	metabolism cucumber 151
GA	bud break	kale 151
bean (<i>Phaseolus</i>) 195 . pea 3748	adenine, rose 3921 BA, rose 3921	chloroplast content, cucumber and
IAA, bean (Phaseolus) 195	GA	gherkin 2005
kinetin, bean (<i>Phaseolus</i>) 195 morphactin, bean (<i>Phaseolus</i>) 2800	grapevine 583 rose 3921	development
morphactins, capsicum 8757	bud dormancy, breaking, GA, cacao	BAP, pumpkin 2780 GA, pumpkin 2780
TIBA, bean (Phaseolus) 2800	8137	IAA, pumpkin 2780
application adjuvants	bud inhibition, auxin, brussels sprouts	number, cucumber and gherkin 2005 chlorosis, GA, lettuce 6789
oil	bulb	cold, resistance, chlormequat, tomato
azalea 6978 chrysanthemum 6978	initiation, ethephon, onion 2086	6100
with ascorbic acid, aminozide, petunia	size, MH, onion 3770 storage	conference 7283
6152	dormancy	splitting, ethephon, gladiolus 2239
foam, aminozide, oleander 7059 methods	aminozide 4524 ethephon 4524	storage, ethephon, gladiolus 2239 corm production, ethephon, gladiolus
ancymidol, lily 4659	MH 4524	1358

wth substances contd.	Growth substances contd.	Growth substances contd.
ormel	cuttings contd.	dwarfing contd.
formation	treatment contd.	ancymidol contd.
abscisic acid, gladiolus 6174	IBA contd.	gloxinia 6176
GA, gladiolus 6174	Populus spp. 3009	lily 1361, 2251, 4659
kinetin, gladiolus 6174	Prunus mahaleb 6616	petunia 2931 ·
ormel production, ethephon, gladiolus	, P. spp. 3509	poinsettia 1390
1358	tree fruits 4178, 8323	Zantedeschia spp. 2950, 4660
urd, formation, morphactins, cauliflower	trees and shrubs 1011	BA, chrysanthemum 1335
and broccoli 7661	Ziziphus jujuba 3293	butylammonium bromides
uttings	indole acid, bean (<i>Phaseolus</i>) 8678	bean (Phaseolus) 2031
leaf	Jiffy-Grow, viburnum 2312	chrysanthemum 2031
treatment	kinetin, ornamental plants 7886	CBBA, citrus 3141
cytokinnis, begonia 2223	malformin, bean (Phaseolus) 3721	CBBP, azalea 4702
GA, begonia 2223	2-methyl-5-oxybenzofuran-3-carbonic	CCC, lily 1361
IAA, begonia 2223	acid, peach 3467	CHE-8913, lily 2251-2252
NAA, begonia 2223	NAA	chlormequat 3141
saintpaulia 7887	bean (Phaseolus) 8678	bean (Phaseolus) 2031
root, treatment, IBA, tree fruits 8323	blueberry 1866	begonia 5420
source plants	bougainvillea 2980	8
treatment	cherry 4513	chrysanthemum 2031, 2926
BA	cola, annual report, Nigeria 4035	Euphorbia fulgens 6237
chrysanthemum 1335	conifers 5462	geranium 2194, 2196, 6983, 7866,
poinsettia 2284	cornus 4718	8870-8871
ethephon, poinsettia 2284	litchi 814	annual report, UK 6128
GA	olive 9110	Ipomoea spp. 6151
cherry 1809	peach rootstocks 1817	lily 2251, 5430, 8896
peach 1809	pepper, black 1408	oleander 3932
IBA, mango 3219	plum 3508	ornamental shrubs 1384
PBA, poinsettia 2284	NAAM, blueberry 1866	poinsettia 1389, 2984, 4695-4696
TIBA, poinsettia 2284	α-naphthol, bean (<i>Phaseolus</i>) 8678	CPA 3141
treatment	pyrogallol, bean (<i>Phaseolus</i>) 8678	CTBP, azalea 4702
aminozide, poinsettia 2281	Rhizopone, plum 3508	EL-531, lily 2252
auxins, tea 3264	Rootone, viburnum 2312	EL 558, chrysanthemum 7861
BA, poinsettia 2281	SADH, ornamental plants 713	ethephon, lily 1361
blueberry, annual report, Yugoslavia	salicylic acid, bean (<i>Phaseolus</i>) 8678	IT-3233 3141
3517	Seradix B-3, bougainvillea 8942	IT-3456 3141
chlormequat, poinsettia 2281		
	TIBA, cola, annual report, Nigeria	lily 5431
Chloromone, magnolia 5466	4035	limonene derivatives, grapefruit 2400
p-coumaric acid, bean (Phaseolus)	trees and shrubs, annual report,	methyl caprate 3141
8678	Netherlands 4604	MH
coumarin, bean (Phaseolus) 8678	defoliation, Ethrel, coffee 1574	chrysanthemum 2926
Cutstart, azalea 3917	desiccants, pre-harvest, dimexan, onion,	citrus 2402
2,4-D	annual report, UK 3610	MH-30, ornamental shrubs 1384
bean (Phaseolus) 8678	disease	morphactins, coleus 1349
magnolia 5466	expression	naptalam 3141
ethephon, chrysanthemum 4623	2,4-D, coffee 1574	Pericetac, poinsettia 4695
ferulic acid, bean (Phaseolus) 8678	NAA, coffee 1574	Phosfon
F529, poinsettia 2281	disease control	azalea 4702
GA .	aminozide, cherry, annual report,	chrysanthemum 2926
apple 2543	Canada 8314	lily 2251–2252
Ipomoea spp. 2930	chlormequat, grapevine 5129	Phosphon, chrysanthemum 7861
morning glory 4632	GA, cherry, annual report, Canada	potassium azide 3141
Hormodin, viburnum 2312	8314	PPA, azalea 4702
Hormodin no.3, azalea 3917	Off-Shoot O, apple 2576	Pydanon, bedding plants 5390
p-hydroxybenzoic acid, bean	Off-Shoot T, apple 2576	SADH, ornamental shrubs 1384
(Phaseolus) 8678	disease incidence	various, ornamental plants 4610
IAA 1408	2,4-D	endogenous
bean (Phaseolus) 3721, 6853,	grapefruit 1506	apices
8678	orange 1506	curd development, cauliflower and
bougainvillea 2980	GA, tomato 3815	broccoli 3667
cherry 4513	IAA, tomato 3815	temperature, cauliflower and broccoli
chrysanthemum 6971	disorder control, chlormequat, grapevine	3667
conifers 3910	5125	apple, annual report, UK 8317
grapevine 1900	disorder incidence	apricot 5758
hop 5504	apple, annual report, USA 24	report, Australia 3344
olive 9110	chlormequat, grapevine 5872	biosynthesis
ornamental plants 7886	ethephon, apple 8409	apple 923
plants from irradiated seeds, bean	dormancy	Kalanchoe spp. 3902
(Phaseolus) 3711	breaking	Brassica napus 4726
trees and shrubs 1011	GA	bud
IBA 1408	artichoke, jerusalem 2749	apple 5742
apple 2543–2544, 7338	tea 6461	black currant 527
azalea 3917	kinetic, tea 6461	dormancy, apple 6575
	induction, abscisic acid, apple 4220	seasonal variations, peach, annual
blueberry 1866 bougainvillea 2980	dwarfing	report, USA 3349
	aminozide	walnut 2663
cherry 1809		bulb, onion 3772
chrysanthemum 4623, 6971	apple 966	
conifers 5462	azalea 4702	citrus 4014
cornus 4718	bean (<i>Phaseolus</i>) 2031	cotyledons, tomato 248
grapevine 2713	chrysanthemum 2031, 2926, 7861	cuttings
litchi 814	Euphorbia fulgens 6237	rooting capacity
magnolia 5466	geranium 8871	apple 926
Malus spp. 3931	gloxinia 6176	conifers 3910
morning glory 4632	grapefruit 2400	translocation, grapevine 1091
myrobalan 1850	lily 8896	defoliation, grapevine 7586
oleander 7959 •	oleander 3932	determination
olive 2314, 9110	poinsettia 4695	abscisic acid 2378
orange 3986	AMO-1618, <i>Ipomoea</i> spp. 6151	1-acetoxy-2,4-dihydroxy-n-hepta-deca-
peach 1809, 3467	ancymidol	16-ene 2378
peach rootstocks 1817	azalea 4702	auxins 2378
plum 1850, 3508, 5061	chrysanthemum 1336, 7861	coffee 7196
poinsettia 2281	geranium 6983, 7866	cucumber and gherkin 6827

Growth substances contd.	Growth substances contd.	Growth substances contd.
endogenous contd.	endogenous contd.	ethylene contd.
determination <i>contd.</i> GA	plant <i>contd.</i> seasonal variations 8568	production abscisic acid 1703
apple 1776	tulip 295	dahlia 4653
cucumber and gherkin 4460	ringing	orange 2069
gibberellins 871	grapevine 1928, 7586	pea 2069
peach 5776	orange 4807, 8083	aminozide
IAA	root 7310 4005 7300	dahlia 4653
begonia 7289 Cleome spinosa 7289	apple 4219, 4995, 7399 diseased plants, cabbage 8623	peach 4264 auxins 1703
Kalanchoe blossfeldiana 7026	temperature, apple 2553	chlormequat, apple 1786
methods 6489	tomato, nematodes 244	cycloheximide
xanthoxin 3719	runner bud, strawberry 4332	orange 2405, 3148
diseased plants peach 5039	seed	tangelo 2405 cytokinins 1703
Verticillium dahliae, tomato 3325	apple 3380 avocado 9069	ethephon
Enhydra fluctuans 3011	cherry 6620	cherry 2631
flower	cucumber and gherkin 1197–1198	cranberry 2691 dahlia 4653
abscission, <i>Cleome hassleriana</i> 8876 carnation 6140	flower bud initiation, apple, annual	olive 2422
chrysanthemum 2191	report, UK 903	peach 2643, 4264
development, Cleome hassleriana	fruit trees and plants 2523	tomato 3813
8876	guava 9175 mango 3241	GA 1703 orange 2069
melon (cantaloup and musk) 1199 opening, IAA, squash 2007	melon (cantaloup and musk)	pea 2069
peach 5042	1197–1198	IAA
pear 4280	peach 2637, 4249, 5772	apple 5003
Pharbitis spp. 7869 senescence, rose 2297, 3922	report, USA 8320 pear 4280	orange 2069 pea 2069
walnut 2663	Protea spp. 750	inhibition, cycloheximide, bean
flower abscission layer, Hibiscus spp.	seedling, peach 5772	(Phaseolus) 4483
7049	shoot	kinetin
flower bud development, coffee 7196	apical dominance, mango 3234 apple 4995, 7399	orange 2069 pea 2069
photoperiodism, blueberry 3530	asparagus 4517	NAA, <i>Cymbidium</i> spp. 6209
fruit	chrysanthemum 2191	TIBA, apple 5003
abscission, peach 3483	grapevine 1121	extraction, IAA, apple 920
apical dominance, mango 3234 avocado 2378, 3093	ivy 3006 lavender 2323	flower development
cherry 5761	mango 3233	adenine sulphate, grapevine 5141
chloroplasts, development, citrus	pea 1236, 6011	BA, grapevine 5141
2399	pruning and training, apple 8367	chlormequat, Clerodendron spp.
grapevine 592, 5140 mango 3241	tomato 251 shoot apices, apple 47	7953 GA
parthenocarpy, pear 8470	shoot tip, cucumber and gherkin 6828	Clerodendron spp. 7953
peach 5776	shoot-tip	Pharbitis spp. 7869
pear 4280	flower bud initiation, sugar cane	IAA, Pharbitis spp. 7869
ripening, grapevine 7586 seasonal variations, pear 8470	9264 photoperiodism, sugar cane 9264	drop, GA, lily 1362 drying quality, MH, chamomile 3083
set, grapevine 7586	spathe, Zantedeschia aethiopica 8911	maturity, GA, artichoke, globe 3636
walnut 2663	translocation	morphology, GA, tomato 2884
Zantedeschia aethiopica 8911	coleus 8923	number
growth substances application, chrysanthemum 8864	ethylene, pea 2059 tuber, kohl-rabi 5197	aminozide, apple 966, 8398 chlormequat, geranium 8870
humic acid	tulip, annual report, USA 8839	EL-531, lily 5431
cucumber and gherkin 684	wilting, pea 3743	ethephon, lily 5431
tomato 684 leaf	enzyme activity	removal, Off-Shoot-T, strawberry
abscission	auxins, pea 2820 cotyledons, cytokinins, fenugreek 3977	4333, 8519–8520 senescence, abscisic acid, rose 3922
bean (Phaseolus) 3718	cytokinins, pea 2820	sex
euonymus 3718	ethephon, cucumber and gherkin 2777	abscisic acid
apple 920, 4995 chrysanthemum 2191	aminozide, tomato 8799	cucumber and gherkin 5227 hemp (<i>Cannabis</i>) 3056
colchicine treatment, bean	ethephon, tomato 8799	CCDP, cucumber and gherkin 4463
(Phaseolus) 6851	GA, tomato 8799	chlormequat, watermelon 8666
euonymus 3718	IAA, tomato 8799	cytokinin, grapevine 5869
Kalanchoe spp. 4677 lavender 2323	fruit abscission layer, cycloheximide, orange 8085	2,4-dichlorophenoxybutyric acid coriander 1407
mango 3233	GA, grapevine 1122	fennel 1407
senescence, coleus 8923	inhibition, PRB-8, cress 8986	okra 1407
senescence bean (<i>Phaseolus</i>) 3718	leaf	ethephon
strawberry 4332 Streptocarpus spp. 7890	2,4-FET, tomato 6102 2,4,5-FET, tomato 6102	cucumber and gherkin 634, 5967, 6829
temperature, apple 2553	2,4,5-T, tomato 6102	cucurbits 1201, 5231
translocation, monocotyledons 706	plant	melon (cantaloup and musk) 120
walnut 2663 light, red, pea 4514	aminozide, tomato 5361 GA	squash, annual report, Italy 6771 watermelon 8666
morning glory 1339	impatiens 7884	F.W.450, coriander 8987
mutants, bean (Phaseolus) 4465	tomato 5361	GA, hemp (Cannabis) 3056
nut, hazel 8448	root	IBA, coriander 8987
pea 3744 peach 5758	amino acids, pea 4509 IAA, pea 6010	MH, coriander 8987 morphactins, capsicum 8757
plant	kinetin, pea 6010	NAA, cucurbits 1201
apical dominance, pea 4510	seed, abscisic acid, bean (Phaseolus)	TIBA, watermelon 8666
dormancy 8568	5992 choot IAA nea 7736 7737	sex expression
apricot 5758	shoot, IAA, pea 7736–7737 essential oil, composition, MH, mint	GA, melôn (cantaloup and musk) 1199
peach 5758	5499	SADH, melon (cantaloup and musk)
flower, sex, cucumber and gherkin	ethylene	1199
5227 melon (cantaloup and musk) 1198	Actinomycin D, <i>Cymbidium</i> spp. 6209 cycloheximide, <i>Cymbidium</i> spp. 6209	size
photoperiodism, grapevine 6759	ethionine, <i>Cymbidium</i> spp. 6209	aminozide, chrysanthemum 2926 chlormequat, chrysanthemum 2926

Gro

Jeer mach		10
wth substances contd.	Growth substances contd.	Growth substances contd.
ower contd. size contd.	flowering contd. chlormequat contd.	flowers, cut contd.
GA, chrysanthemum 2926, 2926	geranium contd.	preservatives <i>contd.</i> aminozide, rose 7950
MH, chrysanthemum 2926, 2926	annual report, Netherlands 6127	ancymidol, rose 7950
structure, morphactins, capsicum 8757	Hibiscus spp. 7052	benzothiadiazole, carnation, annual
thinning, GA, grapevine, annual report,	mango 3236	report, USA 3835
Cyprus 3560 ower bud	onion 3770 CTBP, azalea 4702	chlormequat, rose 7950 HQC, rose 7950
development	date	SD-8339, rose 7950
BA, chrysanthemum 2928	aminozide 3170	stem
coffee, annual report, UK 2449 GA	apple, annual report, USA 3349 capsicum 4541, 5327	bending ancymidol, tulip 3879
artichoke, globe 3636	chrysanthemum 2926	Phosfon, tulip 3879
chrysanthemum 2928	gloxinia 6176	length
IAA, chrysanthemum 2928 distribution, chlormequat, grapevine	grapeveine 4357 tung 4828	ancymidol, tulip 3879
6760	ancymidol	Phosfon, tulip 3879 frost resistance, aminozide, apple 8399
drop	chrysanthemum 1336	fruit
GA, pea 7745 PCPA, pistachio 994	gloxinia 6176 lily 4659	abscission
initiation	Zantedeschia spp. 2950	abscisic acid, citrus 3146 aminozide, apple 1783
aminozide	6-benzylamino purines, geranium	auxin, citrus 3146
cauliflower and broccoli 6800	2195	cycloheximide
pear 1840, 4279 application, time of, black currant	chlormequat chrysanthemum 2926	olive 6378 orange 2406, 4009
104	okra 7758	2,4-D, orange 2406
BOH, bromeliads, annual report,	tomato 6093	ethephon
Belgium 8835	ethephon capsicum 4541, 5327	apple 1783 cherry 2631
chlorflurenol, marigold 7879 chlormequat	cherry 8432	fenoprop interaction, apple 976
geranium 2194	chrysanthemum 1335	orange 2406, 4009
lemon 7150	geranium 2195	GA, peach 5775
pear 1840, 4279, 8468 ethephon	lily 5431 mango 7204	acidity aminozide, apple 3425
bromeliads	watermelon 8666	ethephon, apple 3425
annual report	GA	fenoprop, apple 3425
Belgium 8835 Netherlands 6126	artichoke, globe, annual report, Cyprus 3604	GA, grapevine 2731, 3597, 8572 NAA, grapevine 2731
cucurbits 1201	bedding plants 6987	ascorbic acid
mango 7204	capsicum 4541, 5327	content
raspberry 1058 watermelon 633	chrysanthemum 2926	aminozide, tomato 6094 GA, tomato 6094
5-fluorodeoxyuridine, citrus 368	grapevine 7589 lily 1362	bunch number, chlormequat, grapevin
GA	tulip 8907	6764
annual report, UK 8317	MH, chrysanthemum 2926	bunch shape
cauliflower and broccoli 6800 lemon 7150	morphactins, chrysanthemum 8864 NAA, capsicum 4541, 5327	chlormequat, grapevine 4356, 587 GA, grapevine 2729, 4356
lily 1362	naphthenic oil 3170	bunch size
pea 7745	phenyl mercuric acetate, tomato	aminozide, grapevine 3591
peach 1826, 5774 pear 1840	6093 Phosfon, chrysanthemum 2926	chlormequat, grapevine 6764 GA, grapevine 593, 3591, 3593,
strawberry 1888, 6710	2,4-D	5873, 8574
hydroxyethylhydrazine, bromeliads,	capsicum 8756	carotene
annual report, Netherlands 6126 inhibition	pineapple · 1613 ethephon, <i>Hibiscus</i> spp. 7052	content aminozide, tomato 6094
GA, pear 7461	GA GA	GA, tomato 6094
IAA, Aranda spp. 6210	apple 3417	colour
morphactins, peach 8460 NAA	chamomile 3054 cherry, annual report, Canada 8314	aminozide 1796 apple 3425, 5746, 6583, 7408
bromeliads 1372	chrysanthemum 2928	cherry, annual report, Canada
cucurbits 1201	mango 3237	8314
SADH, raspberry 1058	peach 5774 tagetes 2217	peach 1830, 8462 tomato 8799
thymidine, citrus 368 number, chlormequat, grapevine 6760	tulip 1367	2,4-D
ower dormancy, breaking, GA, petunia	IAA, chamomile 3054	banana 2439-2440
6986	IBA, capsicum 8756	pear 3500
ower stem development, ethephon, onion 4525	inhibition abscisic acid	ethephon 1796 apple 976, 3425, 5746, 8409
length	Kalanchoe spp. 4677	annual report, Belgium 6503
chlormequat, bedding plants 6987	olive 9113	cherry 500 citrus 2407
ethephon, onion 4525 GA	GA <i>Kalanchoe</i> spp. 4677	mandarin and tangerine 3149
bedding plants 6987	olive 9113	peach 1829
tulip 8907	MH, onion 3770	rose, annual report, Netherlands
owering aminozide	xanthoxin, <i>Kalanchoe</i> spp. 4677 kinetin, tomato 7807	4604 tomato 8799
apple 3417	morphactins	fenoprop, apple 976, 3425
azalea 4702	apple 5743	GA
cherry, annual report, Canada 8314	cauliflower and broccoli 7661	cherry, annual report, Canada 8314
chrysanthemum, annual report, UK 4622	NAA chamomile 3054	mandarin and tangerine 804
mango 3236	pineapple 1613	persimmon 3169
olive 9113	NAD, apple 3424	tomato 8799
ancymidol azalea 4702	phosphon, azalea 4702 PPA, azalea 4702	IAA pear 3500
geranium 7866	thymine, tomato 7807	tomato 8799
Hibiscus spp. 7052	TIBA, tagetes 2217	NAA, apple 5746
BA, chrysanthemum 2928	flowers, cut	SADH, peach 1026 2.4.5-TP apple 5746
CBBP, azalea 4702 chlorflurenol, marigold 7879	opening, Aadural-AK, chrysanthemum 719	2,4,5-TP, apple 5746 2,4,5-T
chlormequat	preservatives	banana 2439
geranium 7866	abscisic acids, rose 2301	pear 3500

Growth substances contd.	Growth substances contd.	Growth substances contd.
fruit contd.	fruit contd.	fruit contd. parthenocarpy contd.
colour <i>contd.</i> 2,4,5-T <i>contd.</i>	injury <i>contd.</i> cycloheximide <i>contd.</i>	morphactins, cucumber and gherkin
banana 2440	orange 3148, 4010, 5572	4463
composition	erythorbic acid, orange 5572	TIBA, cucumber and gherkin 635,
aminozide, grapevine 4355	hexamic acid, orange 5572	4463
chlormequat, grapevine 2727, 5871	limonin, content, ethephon, orange	pigment accumulation, ethephon, citrus
2,4-D, banana 2438	5576 loosening	2410 quality
ethephon apple 8409	ABA, apple 975	aminozide
melon (cantaloup and musk) 2781	aminozide	apple
GA	orange 3148	annual report
banana 2438	peach, annual report, USA 3348 annual report, Netherlands 23, 100	UK 903 USA 3348
grapevine 2731, 3597, 5871 orange 1500, 4007	chlormequat, olive 9114	grapevine 8575
NAA	cycloheximide	strawberry 6708
grapevine 2731	apple 975	chlormequat, strawberry 6708
mandarin and tangerine 802 TIBA, mandarin and tangerine 802	cherry 8445 olive 1520, 7166	ethephon apple
cracking	orange 2405, 3147–3148,	annual report
chlormequat, grapevine 5871	4010–4011, 5572	UK 903
GA, grapevine 5871	tangelo 2405	USA 3348
degreening, ethephon, citrus 2409 development	dichloroacetate, olive 9114 2,4-D, cherry 8445	fig 1812 melon (cantaloup and musk) 278:
adenine sulphate, grapevine 5141	erythorbic acid, orange 5572	GA, lime (Citrus), annual report,
aminozide, apple 6576	ethephon 501	USA 2375
BA, grapevine 5141	apple 975	NAA
GA, orange 1500 disorders	cherry 500, 2633, 7433, 8445 annual report	apple, annual report, USA 3348 mandarin and tangerine 6358
aminozide, apple 1796, 7408	Belgium 6503	review 1792
ethephon, apple 1796	USA 8319	SADH, apple 488
GA, mandarin and tangerine 804	citrus 2407	2,4,5-TP, apple, annual report, UK
NAA, apple 5005	damson, annual report, UK 3347 fruit trees and plants 5801	903 respiration
phloridzin, apple 5005 drop	gooseberry 3522	aminozide, apple 1783
aminozide, apple 1783, 3401, 5746,	mechanical harvesting, black	ethephon, apple 1783
6583	currant 1858	ripening
apple, annual report, UK 903 calcium orthophosphate 2402	olive 1521, 2422, 6379, 7166, 9114	abscisic acid, pear 1842 aminozide
chloroflurenol, coconut 1566	peach 2643	apple 5746
cytokinins, apple 5000	plum 6662	cherry, annual report, USA 8319
2,4-D 2402, 2459, 3144	small fruits 6678	grapevine 4357
orange 8091 ethephon 2459	walnut 6662 GA	peach 1026, 1830, 4264, 5776, 8462
apple 5746, 6583, 7406	cherry 8445	tomato 8799
coconut 1566	grapevine 2731	benzyladenine, cherry 1004
raspberry, annual report,	glycerine, olive 9114	Betokson, tomato 676
Netherlands 6670 fenoprop, pear 8469	hexamic acid, orange 5572 monoiodoacetate, olive 9114	chlormequat, date, annual report, Tunisia 3981
GA 2402, 2459	morphactins, cherry 8445	3-CPA, peach 83
apple 5000, 7405	NAÀ	2,4-D
cherry 8444	apple 975	banana 2438–2439
anatomy 68 grapevine 3594	grapevine 2731 Regulaid, peach, annual report, USA	guava 9176 ethephon
pear 8469	3348	apple 5746, 7406, 8409
kinetin, cherry 8444	2,4,5-TP, olive 9114	annual report, Irish Republic
MH 2402	maturity	1720
apricot 994 NAA 2459, 3144	aminozide apple 976	coffee 837 annual report, Nigeria 4035
apple 3421, 3426, 5000, 5746	peach 4264	damson, annual report, UK 3347
NRL, apple 3421	ethephon	date, annual report, Tunisia 3981
potassium dihydrogen phosphate	apple 976	Ficus sycomorus 1811, 2636
2402 TIBA, apple 5000	annual report, UK 8317 peach 4264	fig 1812, 3455 melon (cantaloup and musk)
2,4,5-TP 2459, 3144	fenoprop, pear 8469	1202, 2781
apple 3426, 5746	GA	peach 83, 1829, 4264
2,4,5-T 3144 orange 8091	apple, annual report, UK 8317	tomato 689, 2134, 2886,
firmness	grapevine 2731 strawberry 6710	3817–3818, 4583, 6935, 8798–8799, 8802, 8804
aminozide	NAA, grapevine 2731	annual report
apple 976, 3425, 6583	2,4,5-T, apple, annual report, UK	UK 5885
peach 1830, 6636 tomato 8799	8317	USA 4368
ethephon	number chlormequat, watermelon 8666	tropical fruits 4045 ethylhydrogen 1-propylphosphate,
apple 976, 1783, 3425, 6583	2,4-D, capsicum 8756	tomato 689
gooseberry 3522	ethephon, watermelon 8666	2,4-FET, tomato 6102
peach 1829 tomato 8799	GA	2,4,5-FET, tomato 6102
fenoprop, apple 976, 3425	grapevine 3593 strawberry 3557	GA banana 2438
GA	IBA, capsicum 8756	cherry 1004
persimmon 3169	TIBA, watermelon 8666	grapefruit 1502
tomato 8799 IAA, tomato 8799	number per bunch chlormequat, grapevine 5871	grapevine 3593, 5870, 8572, 8574
SADH, apple 482	GA, grapevine 5871	guava 9176 lemon 1502
flavour	parthenocarpy	strawberry 3557
2,4-D, pear 3500	CPA, tomato 6934	tomato 8799
ethephon gooseberry 3522	DPX 1840, cucumber and gherkin 5968	grapevine, report, Australia 6712
persimmon 1525	GA	IAA, tomato 8799 inhibition
injury	black currant 1861	2,4-D, pear 7462
cycloheximide	grapevine 3594, 7589, 8574	IAA, pear 7462
olive 6378	peach 5043, 5775	kinetin, cherry 1004

Subject Index		10
Growth substances contd.	Growth substances contd.	Growth substances contd.
fruit contd.	fruit contd.	fruit contd.
ripening contd. MH, guava 9176	size_contd. GA contd.	thinning <i>contd</i> . TH 656, mandarin and tangerine
NAA, apple 5746	orange 1500–1501	3145
review, tree fruits 7407	peach 5043	2,4,5-T
2,4,5-TP, apple 5746	small fruits, annual, Australia	apricot 6613
2,4,5-T	4296	peach 6613
banana 2439	strawberry 1880, 3557 tomato 2884	peach 6613
guava 9176 tomato 6102	IBA, capsicum 8756	plum 7479 weight
russeting, SADH, apple 482	NAA, mandarin and tangerine 802	2,4-D, guava 9176
set	PCPA, small fruits, annual, Australia	GA, guava 9176
adenine sulphate, grapevine 5141	4296 SADH apple 5001	MH, guava 9176
aminozide apple, annual report, USA 3349	SADH, apple 5001 TIBA, mandarin and tangerine 802	2,4,5-T, guava 9176 fruiting, GA, grapevine 593
grapevine 2730, 4355	2,4,5-T, apricot 7425	fungicides
annual report, USA 8525	splitting	efficiency, ethephon, gladiolus 2239
tung 3170 annual report, Australia 450	ethephon, peach 83 GA, tomato 2128	translocation aminozide
BA	IAA, tomato 2128	almond 5707
apple 1782	NAA, tomato 2128	chestnut (Castanea) 5707
grapevine 5141	storage	peach 5707
CCC, pear 87	2,4-D, banana 2438	chlormequat almond 5707
chlorflurenol, cucumber and gherkin 5967	ethephon, apple, annual report, UK 8317	chestnut (Castanea) 5707
chlormequat	GA	peach 5707
grapevine 6764	apple, annual report, UK 8317	glycosides
mango 3236	banana 2438	content 8704
4-CPA, eggplant 3786 Duraset, eggplant 3786	strawberry, annual report, UK 7489	GA, tomato 8794 IAA, tomato 8794
2,4-D	review, tree fruits 7407	growth
eggplant 3786	2,4,5-T, apple, annual report, UK	aminozide, ornamental plants, annual
lime (<i>Citrus</i>) 1499	8317	report, Netherlands 6127
orange 8091 ethephon	storage life aminozide, apple 5746, 7408	EL 531, ornamental plants, annual report, Netherlands 6127
cucumber and gherkin 5228, 6829	ethephon, apple 5746	phosfon, ornamental plants, annual
melon (cantaloup and musk) 1202	GA, persimmon 3169	report, Netherlands 6127
raspberry, annual report,	NAA, apple 5746	Pydanon, ornamental plants, annual
Netherlands 6670 GA	2,4,5-TP, apple 5746 sugars	report, Netherlands 6127 reduction
apple 1782, 7405	content	aminozide, apple 1731
black currant 1861, 5699	chlormequat, grapevine 5872,	chlormequat, bedding plants 6987
chlormequat, grapevine 4356	6764	retardation
lime (<i>Citrus</i>) 1499 orange 1500, 4007, 8091	2,4-D, cherry 1002 GA, cherry 1002	annual report, Austria 265 B9, bougainvillea 314
pear 7461	kinetin, cherry 1002	cycocel, bougainvillea 314
small fruits, annual report,	thinning	Phosfon, bougainvillea 314
Australia 4296	annual report	growth inhibition
gibberellins, apple 1781 naphthenic oil, tung 3170	Australia 450 Belgium 902	abscisic acid, apple 1777 abscisic acid derivatives, tissue cultur
orange 1501	apple, annual report, UK 903	bean (Phaseolus) 2804
parthenocarpic, GA, pear 8469	chlorflurenol methyl ester, peach	chloramphenicol, lettuce 8607
PCPA, small fruits, annual report,	4262 CPA manch 1034	cycloheximide, Kalanchoe spp. 5455
Australia 4296 2,4,5-TP, pear, annual report,	CPA, peach 1024 3-CPA 3485	2,4-D, bean (<i>Phaseolus</i>) 7717 5-fluorodeoxyuridine, mustard 7074
Australia 5693	peach 83, 2645, 3483	3942
2,4,5-T	2,4-D	grass swards, annual report, Belgium
lime (Citrus) 1499	apricot 6613 citrus 2402	902
orange 8091 shape	peach 6613	IAA, pea 3748 NIA-10637, avocado 4783
aminozide, apple 7408	ethephon 3485	NIA-10656, avocado 4783
BA, apple 1782	apple, annual report, Netherlands	trisporic acid, pea 7738
CPA, tomato 6934	peach 83, 2644, 3483	growth reduction aminozide
2,4 - D, banana 2439 GA	pecan 90	apple 3417
apple 1782	plum, annual report, UK 3371	grapevine 4355
grapevine 2729, 3594	flurenol n-butyl ester, peach 4262	mango 3236
orange 1500	GA, grapevine 588 MH	chlormequat grapevine 5872, 6760
2,4,5-T, banana 2439 size	apricot 6613	mango 3236
aminozide	citrus 2402	GA, apple 3417
apple 6583	peach 6613	harvesting, period, GA, cauliflower and
grapevine 3591, 4355, 4357, 8575	morphactins, peach 5743 NAA	broccoli, annual report, UK 4366 herbicides
peach 6636 pear 4279	apple 974, 1785	translocation
annual report, Australia 450	apricot 6613	2,4-D, bean (Phaseolus) 5988
chlormequat	mandarin and tangerine 801,	PCPA, bean (Phaseolus) 5988
grapevine 4356, 5872	3145, 6358 peach 6613	hypocotyl elongation
pear 4279 CPA, tomato 6934	pear 4281	AMP, lettuce 138
2,4-D	NÂD	GA, lettuce 138
capsicum 8756	apple 974, 1784	growth
orange 8091	pear 4281	bromodeoxyuridine, tomato 3812
ethephon apple 6583	naphthylphthalamic acid, peach 1827	deoxyuridine, tomato 3812 IAA translocation
melon (cantaloup and musk) 2781	N-1-naphylphthalamic acid, peach	abscisic acid, coleus 8923
GA	1828	DPX1840, bean (Phaseolus) 2824
apricot 7425	PRB 8 E 25, apple, annual report,	injury
grapevine 1122, 2729, 3591, 3593, 4354, 4356, 5873, 7589	Netherlands 5697 1,1,5,5-tetramethyl-3-	aminozide, grapevine 8575 ancymidal, lily 2251
annual report, Cyprus 3560	dimethylaminodithiobiuret, peach	ancymidol, poinsettia 8946
mandarin and tangerine 803	515	chlorflurenol, marigold 7879

Growth substances contd.	Growth substances contd.	Growth substances contd.
injury contd.	interaction contd.	interaction contd.
chlorflurenol methyl ester, peach 4262	3-carboxy-2-pyridones, GA application, vegetables 3334	potassium nutrition, lettuce 8607 proteins, GA, pea 6016
chlormequat campanula 6160	chlormequat	relative humidity, orange 5572
lily 5430	GA application	rootstocks, GA, apple 4220
ornamental plants 8842	bedding plants 6987	SADH, GA application, melon
chlorosis, chlormequat, poinsettia 1389	Cyamopsis tetragonoloba 2808	(cantaloup and musk) 1199
3-CPA, peach 3485	DPX 1840	tannins
cytokinins, apple 1781	ethephon application, cucumber and gherkin 5968	GA cucumber and gherkin 2825
2,4-dichlorophenoxybutyric acid coriander 1407	ethylene application, cucumber and	pea 2825
fennel 1407	gherkin 5968	IAA, cucumber and gherkin 2825
okra 1407	2,4-D, BA application, pea 2065	temperature
DPX 1840, cucumber and gherkin	endothal, ethephon application, bean (<i>Phaseolus</i>) 4481	ethephon, tomato 3813
5968	enzyme activity, rose 1395	GA, tissue culture, artichoke, jerusalem 8597
2,4-D eggplant 3786	ethephon	NAA, tissue culture,
lettuce 609	DPX 1840 application, cucumber and gherkin 5968	artichoke, jerusalem 8597
ethephon	GA application, citrus 2407	orange 5572
cherry 7433	ethionine, NAA application,	thymidine, 5-fluorodeoxyuridine
fig 1812 tree fruits 7314	Cymbidium spp. 6209	application, mustard 7074 TIBA
flurenol n-butyl ester, peach 4262	ethylene, cycloheximide, calamondin 8084	BA application, Kalanchoe spp.
GA	5-fluorodeoxyuridine, thymidine	2976
grapevine 2732	application, mustard 7074	GA application, Kalanchoe spp.
lettuce 5914 MH, onion 3770	GA abscisic acid application	2976 NAA application, <i>Kalanchoe</i> spp.
NAA, conifers 5462	hemp (Cannabis) 3056	2976 <i>xaianenee spp.</i>
Phosphon, tulip 3879	ivy 6217	tryptophan application
1-propylphosphonic acid, privet 7958	BA application	GA, pea 3747
testing, chloramphenicol, bean (<i>Phaseolus</i>) 193	chrysanthemum 2928 peach 2637	IAA, pea 3747 internode length
thiouracil, papaw 401	3-carboxy-2-pyridones application,	brassins
TIBA, Kalanchoe spp. 2976	vegetables 3334	bean (Phaseolus) 3720
2,4,5-TP, apple 5729	chlormequat application bedding plants 6987	Malus spp. 4726 chlormequat, grapevine 1125
various, radish, annual report, German Federal Republic 7598	Cyamopsis tetragonoloba 2808	GA, melon (cantaloup and musk)
interaction	IAA application	1199
abscisic acid	bean (Phaseolus) 5994	SADH, melon (cantaloup and musk)
BA application, ivy 6217 GA application, hemp (<i>Cannabis</i>)	chrysanthemum 2928 SADH application, melon (cantaloup	1199 juvenility
3056	and musk) 1199	abscisic acid, ivy 6217
aminozide, GA application 3417	TIBA application, Kalanchoe spp.	aminozide, ivy 6217
applied abscisic acid, and endogenous, apple	2976 tryptophan application, pea 3747	AMO-1618, <i>Ipomoea spp.</i> 6151 chlormequat, <i>Ipomoea spp.</i> 6151
3380	2,4,5-T application, apricot 7425	GA
aminozide, and endogenous, pea	IAA	Ipomoea spp. 6151
BA and endogenous apple 2553	ethephon application, lettuce 3647 GA application 3748	ivy 6217 latex
BA, and endogenous, apple 2553 chlormequat	bean (Phaseolus) 5994	production
and endogenous	kinetin application	ethephon
Lonicera spp. 8965	bean (Phaseolus) 5994	papaw 7216 rubber 3255, 9217
pea 3744 p-coumaric acid, and endogenous, pea	cuttings, ornamental plants 7886 lettuce 3647	leaf
3744	malformin application, bean	abscission
cytoquinine active compounds, bean	(Phaseolus) 3721	abscisic acid, bean (<i>Phaseolus</i>) 203:
(<i>Phaseolus</i>) 2799 2,4-D, and endogenous, capsicum	tryptophan application, pea 3747 kinetin	cycloheximide olive 6378
8756	GA application, bean (Phaseolus)	orange 2406, 3147, 5572
ethephon, and endogenous, cucumber	5994	2,4-D, orange 2406
and gherkin 5227 IBA, and endogenous, capsicum	IAA application, cuttings, ornamental plants 7886	endothal, bean (<i>Phaseolus</i>) 4481 erythorbic acid, orange 5572
8756	light	ethephon
kinetin, and endogenous, apple 2553	bean (Phaseolus) 195	bean (Phaseolus) 4481
morphactins, and endogenous, chrysanthemum 8864	chlormequat, tomato, annual report, Irish Republic 5150	orange 2406 peach 2643
phosphon-D, and endogenous, pea	coleus 1375	fatty acid methyl esters, azalea 704
3744	IAA, cuttings, ornamental plants	IAA, bean (Phaseolus) 2035
thioureidobenzoic acids, and	7886 intensity, apple 1731	carbohydrates content
endogenous, pea 3744 applied and endogenous	kinetin, cuttings, ornamental plants	aminozide, grapevine 8569 chlormequat, grapevine 8569
citrus 2407	7886	MH, grapevine 8569
grapevine 592	morning glory 1339	phosfon D, grapevine 8569
melon (cantaloup and musk) 1199 pea 2067	serine, bean (<i>Phaseolus</i>) 4482 malformin, IAA application, bean	TIBA, grapevine 8569 chlorophyll
auxin, non-auxinic chemicals, bean	(Phaseolus) 3721	content
(Phaseolus) 8678	morphactins, NAA + BA application,	aminozide, gloxinia 6176
BA GA application	apple 8400 NAA	chlormequat, grapevine 1125
chrysanthemum 2928	ethephon application, lettuce 3647	colour, chlormequat, geranium 2196 development
peach 2637	kinetin application, lettuce 3647	BA, petunia 7871
1AA application, chrysanthemum 2928	TIBA application, <i>Kalanchoe</i> spp. 2976	2,4-D, petunia 7871
TIBA application, Kalanchoe spp.	nitrogen nutrition, GA, bean	IAA, petunia 7871 kinetin, petunia 7871
2976	(Phaseolus) 7718	NAA, petunia 7871
boron nutrition, aminozide, tagetes 5416	nucleotides, pea 1237	zeatin, petunia 7871
bromodeoxyuridine, deoxyuridine	nutrition, poinsettia 1389 phosphorus nutrition, pea 2068	drop cycloheximide, olive 7166
application, tomato 3812	photoperiodism	ethephon 7166
calcium sprays, bitter pit, apple disorders 1796	cycloheximide, impatiens 7883	injury, fatty acid methyl esters, azalea
districts 1770	GA, impatiens 7883	7044

Subject Index		1023
Growth substances contd.	Growth substances contd.	Growth substances contd.
leaf contd.	nutrient absorption contd.	plant contd.
morphology	benzyladenine, vegetables, tissue culture	weight contd.
2,4-D	1956	GA contd.
apricot 6613	GA, tomato 6094	lettuce 5914
peach 6613	kinetin, vegetables, tissue culture 1956	IAA, lettuce 609
MH	oestrogens	NOA, cabbage 8616
apricot 6613	content	pod
peach 6613	abscisic acid, bean (<i>Phaseolus</i>) 5260	number ·
NAA	kinetin, bean (<i>Phaseolus</i>) 5260	5-chloro, 2-thenyl, tri-n-butyl-
apricot 6613 peach 6613	offshoots, treatment, IBA, date 8106 organic acids	phosphoniumchloride, bean (<i>Phaseolus</i>) 1221
2,4,5-T	content	CTBP, bean (<i>Phaseolus</i>) 5993
apricot 6613	aminozide, tomato 5361	pollen destruction, FW450, vegetables,
peach 6613	GA, tomato 5361	annual report, Belgium 1131
movements, IAA, bean (Phaseolus)	Orobanche spp., control, MH, watermelon	potassium, absorption, abscisic acid, bean
6852	5210	(Vicia) 4494
nutrients content	ozone injury	practical applications, ethephon 3335
aminozide, grapevine 8569	prevention (152)	proteins
chlormequat, grapevine 2727, 8569	aminozide, petunia 6152	biosynthesis
MH, grapevine 8569	ancymidol, poinsettia 8946	ethephon, fig 1008
Phosphon D, grapevine 8569 TIBA, grapevine 8569	chlormequat, poinsettia 8946 Phosfon-D, petunia 6152	inhibition, chloramphenicol, grapevine 1927
removal	pest control	content
ethephon	Aphis pomi, aminozide, apple 4214	chlormequat, bean (<i>Phaseolus</i>) 5258
hazel 5024	Trialeurodes vaporariorum, aminozide,	GA, orange 8089
tree fruits 6511, 7314	petunia 3850	metabolism
senescence 4940	phloem, formation, GA, grapevine 4354	cucumber and gherkin 151
BA, bean (Phaseolus) 4482	phosphorus, metabolism, GA, pea 3746	kale 151
benzimidazole, Tabernaemontana spp.	photosynthates, translocation, BA,	pruning
8969	grapevine 8567	aminozide, apple 1778, 3396, 5719,
chlormequat, Tabernaemontana spp.	photosynthesis	6576
8969	abscisic acid, strawberry 5819	fatty acid methyl esters, azalea 7044 NAA
cyclohexamide, bean (<i>Phaseolus</i>) 4482	cytoquinine active compounds, bean	
ethephon, tomato 8798	(Phaseolus) 2799 pigments	annual report, UK 8317 apple 2588
GA	biosynthesis	Off-Shoot O, apple 2576
eggplant 671	Actinomycin D, Cymbidium spp.	Off-Shoot-O, azalea 2286
lettuce 1978	6209	Off-Shoot T, apple 2576
Tabernaemontana spp. 8969	cycloheximide, Cymbidium spp.	TIBA, apple 2588
tomato 1297	6209	redox processes
IBA, Tabernaemontana spp. 8969	2,4-D, rose 1394	2,4-FET, tomato 5357
kinetin, eggplant 671	ethephon, cherry 2691	2,4,5-FET, tomato 5357
kinin, lettuce 1978	ethionine, <i>Cymbidium</i> spp. 6209	2,4,5-T, tomato 5357
MH, tomato 1297	inhibition, PRB-8, cress 8986	residues 7044
serine, bean (<i>Phaseolus</i>) 4482	NAA, <i>Cymbidium</i> spp. 6209	chlormequat, azalea 7944
urea cytokinins, radish 8640	orthochlorophenoxyacetic acid, orchids 7029	cyclohexamide, olive 1520 determination, MH, vegetables, annual
chlormequat, grapevine 1125	rose 1395	report, Canada 2734
ethephon, radish 7668	trisporic acid, pea 7738	fruit, chlormequat, tomato 5198
GA, lily 1362	pinching	plant
metabolism	BA, poinsettia 6218	chlormequat, vegetables 5198
abscisic acid	chlormequat, pot plants 5393	2,4-D, tomato 2104
lettuce 8609	ethephon, poinsettia 6218	2,4,5-T, tomato 2104
tissue culture, bean (Phaseolus)	methyl esters of fatty acids, azalea	report, German Federal Republic 8284
2803	7043	SADH
abscisic acid derivatives, tissue culture,	PBA, poinsettia 6218	apple 480, 5001
bean (Phaseolus) 2804	pot plants, review 6135	chinese gooseberry 480
α-decalylacetic acid, coleus 3900	TIBA, poinsettia 6218	respiration abscisic acid, strawberry 5819
GA, morning glory 1339 IAA	plant anatomy	chlormequat, apple 1786
bean (Phaseolus) 6869, 8696	chlormequat, coreopsis 5413	cyclohexamide, geranium 274
cherry 8442	GA, coreopsis 5413	fruit
pea 6869	composition	ethephon, mandarin and tangerine
tomato 2127	aminozide	3149
indole3-acetaldoxime	bean (Phaseolus) 2031	IAA, apple 1772, 5003
ornamental plants 5898	chrysanthemum 2031	TIBA, apple 5003
vegetables 5898	butylammonium bromides	trisporic acid, pea 7738
NAA, coleus 3900	bean (Phaseolus) 2031	tuber
NAA translocation, DPX1840, pea 2824	chrysanthemum 2031	2,4-D, artichoke, jerusalem 8599
nematode relationships	chlormequat bean (<i>Phaseolus</i>) 2031	GA, artichoke, jerusalem 8599 kinetin, artichoke, jerusalem 8599
chlorfluorenol, tomato 8785	chrysanthemum 2031	responses
ethephon, tomato 8785 Phosphon-D, tomato 8785	poinsettia, annual report, USA	abscisic acid 1704
nitrates, absorption, amino acids, pea	1441, 6129	1-amino-2-nitrocyclopentane-1-
4509	GA	carboxylic acid, vegetables, annual
nucleic acids	cabbage, chinese 1179	report, USA 4368
biosynthesis	cauliflower and broccoli 7660	aminozide
5-fluorodeoxyuridine, mustard 3942	lettuce 6789	Abutilon spp., annual report, UK
growth substances 4776	sugar cane 1649	2155
inhibition, MH, pea 3751	morphology	apple 1776
pea 221	IAA, walnut 2663	annual report, German Federal
content	MH, walnut 2663	Republic 7310
chlormequat, pea 4500	quality, 2,4-D, cabbage 8616 storage, benomyl, rose, annual report,	brussels sprouts 5932 fruit trees and plants 3360, 8328
2,4-D, pea 4500 TIBA, pea 4500	UK 2153	annual report, Canada 5696
metabolism	weight	geranium 6150
cucumber 151	2,4-D	hop, annual report, UK 3954
GA, pea 6012	cabbage 8616	hydrangea 8842
kale 151 .	lettuce 609	plum, annual report, Belgium 6503
nut, drop, ethephon, hazel 7437	GA	pome fruits, annual report, Belgium
nutrient absorption	cabbage 8616	2517
aminozide, tomato 6094	cauliflower and broccoli 7660	tomato 6099

Growth substances contd.	Growth substances contd.	Growth substances contd.
responses contd.	responses <i>contd.</i> 2,4,5-TP, oil palm, annual report,	root <i>contd.</i> growth
apple, annual report, UK 8317 auxins 1704	Nigeria 9181	bromodeoxyuridine, deoxyuridine,
azathymine, tomato 7807	Triton X-100	tomato 3812
benzyladenine, tomato 5359	cress 7665	chlormequat, coreopsis 5413
brassins, bean (Phaseolus) 2801	mustard 7665	GA, coreopsis 5413
CCC, bean (Phaseolus) 5257	vanillin	IAA Kalanahaa snn 5455
chlormequat 1704 Abutilon spp., annual report, UK	bean (<i>Phaseolus</i>) 3750 pea 3750	<i>Kalanchoe</i> spp. 5455 pea 6010–6011
2155	various, plum, annual report, UK	inhibition
apple 1776	8318	IAA, pea 3749
apricot 8329	vegetables, review 7611	TIBA, tomato 248
cherry 8329	xanthoxin 1704	size, ethephon, radish 7668 storage
Euphorbia fulgens 8842	retardants	BA, carrot 1308
fruit trees and plants 8328	aminozide	shoot growth
geranium 6150 grapevine, annual report, German	apple 4996, 6577, 8398 Asclepias spp. 7952	aminozide, radish 5942
Federal Republic 5072	azalea 7944	MH, radish 5942 treatment
Lonicera spp. 8965	bedding plants 6136	heteroauxin, tomato 7808
myrobalan 8329	campanula 6160	SRV, tomato 7808
okra 7758	ground cover plants 6157	root nodule, formation, Ethrel, pea 207
pea 1238, 4500	oleander 7059	rooting
pear 8468 annual report, Netherlands 5697	pear 4279, 6577 ancymidol	IBA, rubber 7228 shoot-tip, NAA, tissue culture, oil pal
phosphorus nutrition, pea 2068	bedding plants 6136	1604
plum, annual report, Belgium 6503	ground cover plants 6157	rootstocks, treatment, GA, pecan 2654
poinsettia, annual report, UK 4606	Hibiscus spp. 7052	runner
pome fruits, annual report, Belgium	ornamental plants 1326 apple, annual report, UK 903	development, GA, strawberry 6709
2517 Prunus mahaleb 8329	3-carboxy-2-pyridones	formation aminozide, strawberry 6708
review 8310	lawns and sports turf 3334	chlormequat, strawberry 6708
cytokinins 1704	privet 3334	production, GA, strawberry 6710
dwarf plants, IAA, nasturtium 4647	chlorflurecol, lawns and sports turf	seed
2,4-D pea 4500	2263 chlormequat	abortion, MH, apricot 7424 development, ethephon, cucumber and
rubber 8184	apple 4996, 6577, 8398	gherkin 5969
ethephon	azalea 7944	germination
fruit trees and plants 8328	bedding plants 6136	ethephon, onion 4525
rubber 8184 GA	campanula 6160	inhibition
Ammi spp. 9019	Hibiscus spp. 7052 lawns and sports turf 2263	GA, grapevine 3566 IAA, lettuce 3647
artichoke, globe 3632	ornamental trees and shrubs 6212	NAA, lettuce 3647
Atropa belladonna 7100	pear 4279, 6577	production
bean (Phaseolus) 5994	poinsettia 6219	2,4-D, Plantago ovata 9046
Dipsacus spp. 7117 fruit trees and plants 4148	DMC, azalea 7944 ethephon, bedding plants 6136	ethephon cucurbits 5231
hop, annual report, UK 3954	ethyl hydrogen 1-propylphosphanate,	onion 4525
okra 7755	privet 7958	GA, lettuce 5914
pea 1238	F529, azalea 7944	IAA, Plantago ovata 9046
pear, annual report, Netherlands 5697	MH	IBA, Plantago ovata 9046
sugar cane 4104	ground cover plants 6157 lawns and sports turf 2263	MH, carrot 6947 NAA, <i>Plantago ovata</i> 9046
tomato 5359, 8794	privet 7958	quality, MH, carrot 6947
vegetables 4148	morphactins, chrysanthemum 8864	size, MH, carrot 6947
gibberellins 1704	Phosphon D, apple 8398	treatment
review 2512 hydroquinone	1-propylphosphonic acid, privet 7958 Pydanon	abscisic acid, peach 2637 BA, peach 2637
bean (Phaseolus) 3750	lettuce, annual report, German	6-benzylaminopurine, Cyamopsis
pea 3750	Federal Republic 7598	tetragonoloba 2808
IAA	ornamental plants 2163	CCC, lettuce 137
bean (<i>Phaseolus</i>) 5994 onion 8743	annual report, German Federal	chlormequat, Cyamopsis
pea 1238	Republic 7843 review	tetragonoloba 2808 cycloheximide, squash 5208
tomato 8794	Hibiscus spp. 7846	ethephon 3647
IBA	pot plants 7846	6-furfurylaminopurine, Cyamopsis
onion 8743 tomato 6101	RH 531, ground cover plants 6157	tetragonoloba 2808
kinetin, bean (<i>Phaseolus</i>) 5994	various, review 6502 vegetable oils, apple 4996	GA citrus 1468
MH	retardation	Cyamopsis tetragonoloba 2808
apricot_7424	ancymidol, poinsettia 8946	eggplant 3783
okra 7755	chlormequat, poinsettia 8946	grapevine 3566, 6718
radish 5941 morphactins, fruit trees and plants	review 2512 rhizome	pea 4498 peach 2637
8328	treatment	Rauwolfia spp. 352
NAA	IAA, iris 5426	IAA 3647
hop, annual report, UK 3954	Rhiourea, iris 5426	eggplant 3783
onion 8743 tomato 6101	rhizome bud, number, MH, iris 5426	pea 4498
orthonil, scorzonera 1160	rhizosphere, micro-organisms, population, chlorflurenol-n-hexylester, capsicum	kinetin 3647 grapevine 6718
Phosphon, phosphorus nutrition, pea	2849	pea 4498
2068	root	NÅA 3647
pot plants, review 6135	formation	eggplant 3783
resorcin bean (<i>Phaseolus</i>) 3750	2,4-D, bean (<i>Phaseolus</i>) 190	N°-benzyladenine, celery 1309
pea 3750	IAA, bean (<i>Phaseolus</i>) 190 IBA, almond 5708	review 4374 weight, brassins, bean (<i>Phaseolus</i>)
review 4939	NAA	2801
SADH, pea 1238	almond 5708	seedling
strawberry, GA 3540 TIBA	bean (Phaseolus) 190	growth
fruit trees and plants 8328	formation on cuttings GA, pea 3747	GA, Cyamopsis tetragonoloba 280 inhibition
pea 4500	IAA, pea 3747	asparagusic acid, lettuce 4517

Growth substances contd.	Growth substances contd.	Grubbing contd.
seedling contd.	storage disorders	equipment, tea 854
growth contd.	2,4-D, pear 3500	shade trees, tea, annual report, India
inhibition contd.	ethephon, apple 976	1657
IBA, almond 5708	GA, apple 1797	Guava
NAA, almond 5708	sucker	annual report, India 4034
seedlings, treatment, GA, pear 5788 shoot	Off shoot O tree fruits annual	economics, India 5624
anatomy	Off-shoot-O, tree fruits, annual report, UK 8318	fungicides, injury, copper 4063 growing
BA, apple 8400	Off-shoot-T, tree fruits, annual	USA 1531
GA, apple 8400	report, UK 8318	Venezuela 8119
morphactins, apple 8400	sucrose, content, ethephon, radish 7668	pruning and training 1590
NAA, apple 8400 development	sugars content	report, USA 6382
BA, petunia 7871	GA	storage, dips, fruit ripening, growth
2,4-D, petunia 7871	aminozide, tomato 5361	substances 9176
IAA, petunia 7871	sugar cane, annual report, USA	Guava diseases, Phytophthora parasitica 4063
kinetin, petunia 7871	9221	Guava disorders
NAA, petunia 7871	metabolism, 2,4-D, pea 2058	chlorosis
zeatin, petunia 7871 growth	sulphur dioxide injury prevention	boron nutrition 8161
aminozide	ancymidol, poinsettia 8946	copper nutrition 9173
apple 3401	chlormequat, poinsettia 8946	Guava flower, biology 3209
grapevine 2730, 4357	testing, spray cabinet 8	Guava fruit
pear 1840	tillering	ascorbic acid, content, rootstocks 5626
auxins, pea 2822 chlorflurenol, marigold 7879	chlorflurecol, lawns and sports turf 2263	composition, boron nutrition 8161 firmness 3174
chlormequat	chlormequat, lawns and sports turf	quality
cacao 8137	2263	copper nutrition 9173
Clerodendron spp. 7953	tissue culture	pruning and training 1590
grapevine 6764	GA, aquilegia 3856	rootstocks 5626
annual report, Australia 550 pear 1840	IAA, aquilegia 3856 kinetin, aquilegia 3856	ripening
cytokinin, tissue culture, apple 3419	translocation	bio-chemistry 3174
ethephon	aminozide, chrysanthemum 4630	boron nutrition 8161
cucumber and gherkin 5228	anthesins, Perilla spp. 4645	copper nutrition 9173 growth substances 9176
pear 1840	BA, Kalanchoe spp. 2976	size
GA cacao 8137	2,4-D, bean (<i>Phaseolus</i>) 190 α -decalylacetic acid, coleus 3900	boron nutrition 8161
Clerodendron spp. 7953	gibberellins, <i>Perilla</i> spp. 4645	copper nutrition 9173
Kalanchoe spp. 5455	heteroauxin 1320	weight, growth substances 9176
pea 2823	IAA	Guava growth substances
pear 1840	bean (<i>Phaseolus</i>) 190, 2795, 3714,	endogenous, seed 9175
tea 4901 tissue culture, apple 3419	7712, 8696 bean (<i>Vicia</i>) 7726	fruit ripening
watercress 3676	Cleome hassleriana 7881	2,4-D 9176
IAA, pea 6868	coleus 1375, 4676, 5453	GA 9176
kinetin, tomato 7807	pea 216, 2821, 4513, 5279	MH 9176
thymine, tomato 7807	Kalanchoe spp. 3902	2,4,5-T 9176 weight
TIBA, pear 1840 morphology	kinetin, pea 216 MH, apricot 7424	2,4-D 9176
2,4-D	NAA	GA 9176
apricot 6613	bean (Phaseolus) 190	MH 9176
peach 6613	coleus 3900	2,4,5-T 9176
MH	Kalanchoe spp. 2976 orange 2401	Guava leaf carbohydrates, content, boron nutrition
apricot 6613 peach 6613	SADH, bean (<i>Phaseolus</i>) 1218	8161
NAA	TIBA, bean (Phaseolus) 3714	nitrogen, content, boron nutrition 8161
apricot 6613	2,4,5-T, bean (<i>Phaseolus</i>) 7712	number
peach 6613	tuber	boron nutrition 8161
2,4,5-T	development abscisic acid, dahlia 4653	size 9173
apricot 6613 peach 6613	aminozide, dahlia 4653	boron nutrition 8161
shoot-tip, injury, 2,4-D, bean (<i>Phaseolus</i>)	ethephon, dahlia 4653	copper nutrition 9173
//1/	sprouting	Guava nutrition
shuck loosening, ethephon, pecan 90	GA, begonia 730, 4649	boron 8161
sodium, absorption, kinetin, bean (<i>Phaseolus</i>) 2027	morphactins, begonia 730 uses, review 4939	copper 9173 Guava pests
stalk, length, GA, Gloriosa spp., annual	vascular development	Helopeltis antonii, varietal resistance 83
report, Austria 265	GA, peach 5039	parakeets, damage 9174
stem	IAA, peach 5039	review, Bolivia 5671
elongation	Virus .	Guava propagation
IAA, pea 221 indol-3yl-acetamide, pea 221	control 888 thiouracil, papaw 401	air-layering, treatment, growth substance 8160
indol-3yl-butyric acid, pea 221	vitamin B, content, 2,4-D, bean	under mist 5677
naphth-1yl-acetamide, pea 221	(Phaseolus) 7717	Guava rootstocks
napth-2yl-oxyacetic acid, pea 221	water relations	comparative trials
stomata	chlormequat, tomato 6100	Allahabad Safeda 5626
movements abscisic acid	2,4-FET, tomato 6102 2,4,5-FET, tomato 6102	Florida seedling 5626 Psidium spp. 5626
bean (Phaseolus) 194	2,4,5-T, tomato 6102	seedless 5626
rose 194	wound healing	Guava soil
aminozide 6093	IAA, fruit trees and plants 8327	salinity
chinosol 6093	IBA, fruit trees and plants 8327	chlorine 2161
chlormequat 6093	xylem formation	plant, tolerance 2161 sodium 2161
phenyl mercuric acetate 6093 various, watermelon 8657	cytokinin, lettuce 7635	Guava varieties, comparative trials, Sri
stopping	IAA, lettuce 7635	Lanka 5625
aminozide	xylem formation, 2,4-D, pea 4511	Guignardia bidwellii, grapevine diseases,
brussels sprouts 5932	Grubbing	annual report, USA 7490
annual report, UK 3610	arboricides c chloramp, grapevine 581	G. citricarpa citrus diseases 797
brussels sprouts, annual report, UK 598	Dianat, grapevine 581	annual report, Australia 4782
		-

Guilielma gasipaes	Harvesting contd.	mechanical contd.
fruit fats 7272	mechanical contd. capsicum 4542	pneumatic suction contd.
proteins 7272	catching frames	olive 819
growing, Costa Rica 1666	apple 54, 977	for processing, vegetables 5900
Gum, gardenia, composition, flavones 766	branch injury, apple 2595	pruning and training
Gum plants, Loxopterygyum huasango	fruit injury, apple 2595	grapevine 5143, 5845
4781	fruit trees and plants 2511, 2531	olive 2425
Gusmania spp., trichome, anatomy,	guava, report, USA 6382	plum 1848
morphology 6199	chemical defoliation, annual report,	raspberry, annual report, Canada 2669
Guzmania spp., photosynthesis 305	Irish Republic, bean (<i>Phaseolus</i>)	review
Gymnosporangium spp., pear diseases,	5150 cherry 1005	currants 7502
annual report, Canada 3370 Gypsophila diseases, storage rots, annual	annual report, Belgium 6503	fruit trees and plants 1717
report, USA 8834	citrus, annual report, USA 2375	grapevine 6766 sugar cane 6450
Gyromitra esculenta, growing, USSR 3830	cucumber and gherkin 1200, 1204	root, injury, carrot 6114
Haemagglutinin	economics	shakers
applied	grapevine 5144	almond 4169
bulb, onion 2798 seed, bean (<i>Phaseolus</i>) 2798	olive 2426 equipment	apple 978
seedling, bean (<i>Phaseolus</i>) 2798	apple, annual report, Canada 5695	black currant 5804
Haemanthus albiflos	apple 457	branch injury, apple 2595
enzyme activity, pollen germination 8910	black currant 2672	damson 7480
pollen, germination, enzyme activity	brussels sprouts 2764, 4434	fruit injury
8910	cauliflower and broccoli 5937–5938	apple 2595, 2633
Hail	cherry 457 fruit trees and plants 8331	cherry 2633 grapevine 570, 819, 5143
damage prevention	for lodged cane, sugar cane 8257	annual report, Italy 6714
chemical treatment of clouds 6490	mushroom 7840	guava, report, USA 6382
fruit trees and plants 3393	peach 457, 1831	hazel 2635
leaf cover, grapevine 5836	pear 457	olive 819, 1521, 2425, 6380
nets	plum 457	orange 4011, 4013
apple 8355	pome fruits 8411 strawberry 2672	raspberry 6684 tree fruits, annual report, Canada
economics apple 8356	sugar cane 8258	2515
grapevine 8356	tea 3285	small fruits 1046
grapevine 8355	tomato 2888, 3819	annual report, UK 3514
tea, annual report, Kenya 7264	types compared, hop 5513	strawberry 549
tulip 2256	vegetables, annual report,	annual report, USA 6692
suppression, annual report, USA 3300	Netherlands 8581 flowers	tea, annual report, USA 1530 tomato 2889
Hainesia lythri, storage rots, strawberry diseases 1078	annual report, Netherlands 1314	tractor-drawn frame, peach 4267
Hamatocactus satispinus, flower, opening-	gladiolus 2945	trash removal, sugar cane 8260
closing, rhythms 6201	fruit	tree fruits, annual report, UK 5752
Hanseniella spp., pineapple pests 4074	annual report, Netherlands 23, 100	vegetables
Hapithus agitator, citrus pests, annual	injury	annual report
report, USA 8051 Hares	catching frames, apple 2595 shakers	Netherlands 1132 UK 4365
repellants, varietal preference, hop pests	apple 2595, 2633	USA 1130, 4367–4368
7095	cherry 2633	vibrating comb, olive 3167
repellents, TMTD, application, in paint	loosening	washing machine, coffee 1587
1730	ascorbic acid	windfalls, apple 3430
Harungana spp., leaf, composition, pigments	apple 975	windrower, sugar cane 6453
335 Harvesting	cherry 8445 cherry 500	methods compared brussels sprouts 8635
biennial, black currant 3519	citrus 4012	onion 7752
burning	growth substances	mobile platform
cane deterioration, sugar cane 7260	annual report, USA 8319	apple 6588
sugar cane 7259	apple 975	fruit trees and plants 1716
carbohydrates content, sugar cane 9268	black currant 1858 cherry 501, 8445	strawberry 1891 once-over
chemicals to aid, review, olive 4825 containers	annual report, Belgium 6503	cauliflower and broccoli 5186
polystyrene, economics, apple 980	ethephon, cherry 2633	strawberry 8524
trays, liners, pear 1033	olive 1521, 7166, 9114	vegetables 5923
desiccation	orange 3148	shuck loosening, growth substances,
chemical, neo-decanoic acid mixture,	peach, annual report, USA	ethephon, pecan 90
onion 4526 herbicides, pea, annual report, UK	3348 olive 2426	systems, economics, lemon 2408 time of
3611	review, olive 2423	Angelica spp., medicinal use 3067
deterioration, sugar cane 6452,	small fruits, annual report, UK	cane maturity
7259–7260	3515	analysis, sugar cane 7258
economics, brussels sprouts 8635	grapevine 4359	sampling, sugar cane 7258
fruit, loosening, chemical, orange 4011	annual report	cane quality, sugar cane 9266
labour requirements peach 6627	Australia 4296 German Federal Republic 5072	forecasting, apple, annual report, UK 8317
sugar cane 5656	growth substances to aid, annual report,	fruit colour chart, apple 1787–1788
mechanical	Netherlands 23, 100	fruit maturity tests
air separator, coffee 1587	Hydrapick machine, black currant	apple 1789–1790
asparagus, annual report, USA 7601	8487	pear 1789-1790
bean (<i>Phaseolus</i>), annual report, UK 3611	labour management, hop 3960	fruit organic acids, pineapple 9203
bibliography	mobile platform, apple 3429 nets	fruit ripening, chinese gooseberry 430
apple 7409	coffee 1587	nitrogen nutrition sugar cane 1626
berry fruits 8483	macadamia, report, USA 6324	tomato 6910
black currant 3519	olive 1522	plant maturity criteria, cauliflower and
branch	papaw 6415	broccoli 4433
catching frames, apple 2595	pecan, annual report, USA 1706	planting, time, leek 4519
shakers, apple 2595	peduncle length, grapevine 1126, 1895 pest incidence, black currant 1049	raspberry 5811 ration age, sucrose content, sugar cane
brussels sprouts 8635	planting, spacing, spinach 4391	7256
annual report, UK 3614	Plukpony, apple 4953	seedling storage, cauliflower and
bulbs, injury, annual report,	pneumatic suction	broccoli 7638
Netherlands 2219	grapevine 819	sugar cane 7257

Н Н

Haworthia spp.	Hedera spp. contd.	Hemp (Cannabis) growth substances
tissue culture	leaf	flower
flower 2271	anthocyanins, content, respiration 8944	sex abscisic acid 3056
growth substances, treatment 2271 media 2271	colour, respiration 8944	Ga 3056
Hawthorn, as a windbreak, disease	respiration, leaf, colour 8944	Hendessonula toruloidea, Arbutus spp.,
incidence, pear 85	Hedysarum spp., glycosides 3051	diseases, annual report, USA 1315
Hawthorn diseases	Heimia spp.	Heracleum dissectum, coumarins 6283
Erwinia amylovora	alkaloids, extraction from leaves 776	Herbicides
alternative hosts 6519 incidence 4274	cryogenine biosynthesis 768 Helenium spp.	A-820, injury, bean (<i>Phaseolus</i>) 6777 alachlor, injury, bean (<i>Phaseolus</i>) 2018
Hazel	nematicidal principles 283	ametryne
amino acids, metabolism, mycorrhiza	sapogenins 2942	persistence
7435	Helicotylenchus spp.	pineapple 8172
defoliation, growth substances, ethephon	heat treatment, banana pests 5605	sugar cane 9236 aminotriazole
5024	population studies, decline association,	absorption, bean (<i>Phaseolus</i>) 6848
growing, USSR 4299	citrus pests 8078	chloroplast, structure, sweet basil 140
harvesting, mechanical, shakers 2635 mycorrhiza, amino acids, metabolism	rhizome dips, banana pests 5605 rubber pests 9215	fungus control
7435	Helicoverpa armigera, citrus pests 4003	Mycogone pernicosa, mushroom
nucleic acids, extraction 3337	Heliothis armigera, tomato pests, annual	8824 Verticillium malthousei, mushroom
pollen, production, temperature 3454	report, India 3607	8824
sterols, choline, content 4954	H. virescens, parasites, tomato pests 4430	injury
temperature, sums, pollen, production	H. zea	avocado 7121
3454 winter hardiness, varietal differences	parasites, tomato pests 4430	grapevine 5839
5025	tomato pests, annual report, USA 8585 Heliothrips haemorrhoidalis, tung pests	ground cover plants. 1323 metabolism, bean (<i>Phaseolus</i>) 6848
Hazel flower	8117	residues, determination, tomato 7777
biology 7436	Heliotropium spp., varieties, Iowa 7882	amitrole, injury, grapevine 3570
bud initiation, varietal differences 5025	Helminthosporium incurvatum, nitrogen	application, irrigation, brassicas 603
development 5025	nutrition, coconut diseases 9149	asulam, fungus control, Verticillium
distribution 7436 Hazel growth substances	H. sacchari	<i>malthousei</i> , mushroom 8824 atrazine
endogenous, nut 8448	histology, sugar cane diseases 424	disease incidence, sugar cane 5652
leaf, removal, ethephon 5024	resistance, sugar cane diseases 8231	injury
nut, drop, ethephon 7437	H. sativum, host enzyme activity, Poa pratensis, diseases 740	grapevine 6735
drop, growth substances 7437	H. spp., epiphyte, pecan 2653	Prunus spp. 1041 persistence
storage, dormancy 8448	Helopeltis antonii, varietal resistance, guava	pineapple 8172
Hazel seed, dormancy, breaking, growth	pests 838	sugar cane 9236
substances, endogenous 8448	H. clavifer, cacao pests 2444	physiological responses, sugar cane
Hazel varieties	Hemerocallis diseases, leaf streak, annual	3256
comparative studies, Hungary 6621 Enna 502	report, USA 2152	plant, responses, bean (<i>Phaseolus</i>) 5995
Northampton 3453	Hemerocallis spp., breeding and genetics 299	proteins, content, bean (<i>Phaseolus</i>)
nut, quality 3452	Hemiberlesia lataniae, biological control,	5995
Yugoslavia 3452	avocado pests 3983	residues, fruit, strawberry 2700
Heat, resistance, rootstock-scion	H. rapax, chinese gooseberry pests 5080	soil nutrient availability, apple 935
relationships, apple 8354 Heat treatment	Hemicriconemoides chitwoodi	soil pH, sugar cane 5652 tolerance, grapevine 5839
bacteria control	hosts, grapevine pests 5132	benefin, injury, cucumber and gherkin
bulb, hyacinth 2242, 4656	incidence, grapevine pests 5132	5209
sett, sugar cane 8226	plum pests 5132 rose pests 5132	bensulide, injury, tomato 6904
clonal selection, strawberry 5097 equipment 1690	tomato pests 5132	bentazon, tolerance, pea 8714 Bladex, as mutagen, tradescantia 1346
sugar cane 7242	Vitis spp., pests 5132	bromacil
fungus control	H. mangiferae, soil treatment, litchi pests	injury
bean, bean (Phaseolus) 8706	6373	banana 9129
bulb, lily 7902	Hemicycliophora parvana	peach 8454 rubber 8180
fruit cherry 6619	control capsicum pests 6975	sisal 7992
eggplant 6051	tomato pests 6975	testing, bean (<i>Phaseolus</i>) 193
papaw 4072	Hemidesmus indicus, terpenoids 6300	bromoxynil, injury, ground cover plants
peach 1832, 6619	Hemileia spp., fungicides, application,	1323
plant, bean (<i>Phaseolus</i>) 5251	methods, coffee diseases 3206 H. vastatrix	Butisan plant, thinning, vegetables 7648
sugar cane 8230 grapevine, annual report, Italy 6714	biological control, coffee diseases 1580	seedling, emergence, cabbage 6795
mite control, runners, strawberry 8516	coffee diseases 396, 836, 1577–1578,	chloramben
nematode control	2451, 3316, 4862, 5621, 7194	flower, sex, cucumber and gherkin
bulb, lily 7902	annual report, East African Community	8647
bulbs, tulip 2260	5617 hybrid resistance, coffee diseases 1569	injury aspargus 2827
rhizome, banana 5605 pest control, sett, sugar cane 9256	parasites, Verticillium spp., coffee diseases	cucumber and gherkin 626, 628,
phytotoxicity, banana, annual report,	7194	2768, 5209
Western Samoa 8122	varietal resistance	tolerance, cucurbits 623
virus control	coffee diseases 395	chlorambenmethyl, injury, tomato 6904
apple, annual report, German Federal Republic 6505	annual report Nigeria 4035	chlorbromuron, injury, carrot 7816 chlorpropham
chrysanthemum 2190	Zambia 8144	injury, hyacinth 2947
citrus 7141	Hemitarsonemus latus, vegetables, pests	tolerance, vegetables, ornamental plants
hydrangea 4722, 7054	4539	6779
lettuce 7631	Hemp (Cannabis)	chlorthal, plant responses, bean
mushroom 7833	alcohols, content 9024 carbohydrates, content 9024	(<i>Phaseolus</i>) 641 chlorthal dimethyl
shoot-tips, carnation 2920 strawberry 7536	tissue culture	injury, measurement, onion 1251
sugar cane 1634, 7240, 8223, 8230,	cell suspension	residues, fruit, strawberry 546
8255, 9252	antimicrobial activity 9025	tolerance
Hebe spp., growing, peat, nutrition, nitrogen	choline 9025	cucurbits 623
8941 Hedera spp.	fatty acids, metabolism 8591 phenolic compounds 9025	onion 5305 chlorthiamid
growing, as an intercrop, Strelitzia spp.	Hemp (Cannabis) flower, sex, growth	fruit, ascorbic acid content, gooseberry
8879	substances 3056	1051

residues, plant, sugar cane 9241

Herbicides contd.	Herbicides contd.	Herbicides contd.
chlorthiamid contd.	diuron	linuron
injury, grapevine 6735	disease incidence, sugar cane 5652 fungus control	injury bean (<i>Phaseolus</i>) 3700
residues soil 1683	Mycogone pernicosa, mushroom	capsicum 667
fruit trees and plants 6542	8824	Carpobrotus spp. 1323
CP-8261, injury, bedding plants 2171	Verticillium malthousei, mushroom	carrot 7816
cyanazine, injury, pea 4501	8824	persistance, sugar cane 8206
cycloate, injury, spinach 7618	injury	MCPA
Daconate, injury, oil palm 1601 Dacthal	apple 6543	injury, lettuce 1967
injury, vegetables 8605	bean (<i>Phaseolus</i>) 3700 grapevine 3570, 6735	residues, determination, tomato 7777 MCPB, quality, pea 206
residues	pecan 5056	MCPP, injury, ground cover plants 1323
plant 646	pineapple 8172	mecoprop, injury, lettuce 1967
soil 646	rubber 9208	menthabenzthiazuron, tolerance, pea
dalapon disease incidence, sugar cane 5652	sisal 7992	8714
flower, sex, cucumber and gherkin	sugar cane 847, 4886, 8206	Mesoranil, seedling, emergence, cabbage 6795
8647	testing, bean (<i>Phaseolus</i>) 193 tree fruits 7357	metobromuron
fungus control, Verticillium malthousei,	tropical crops 8134	injury
mushroom 8824 injury	persistence, sugar cane 9236	bean (Phaseolus) 170
grapevine 3570	residues	tomato 777
sugar cane 847	determination, tomato 7777	tree fruits 7357
tropical crops 8134	soil	MH, residues, determination, vegetables,
residues application, methods, vegetables	apple 6543 annual report, Australia 6523	annual report, Canada 2734 mixtures, injury, oil palm 8166
1949	soil pH, sugar cane 5652	monolinuron, yield increase, grapevine
soil, strawberry 2699	tolerance	1902
soil pH, sugar cane 5652	stone fruits 3510	monuron 8265
tolerance, sugar cane 9239	sugar cane 4886	enzyme activity, tea 8265
dazomet, plant, size, cauliflower and broccoli 7649	DNOC, injury, shallot 1258	injury pineapple 8172
2,4-DB, quality, pea 206	2,4-DNP	sisal 7992
DCPA	injury, testing, bean (<i>Phaseolus</i>) 193 respiration, tomato 6922	photosynthesis, tea 8265
injury, cucumber and gherkin 5209	2,4-Ď	respiration, tea 8265
residues, application, methods, vegetables 1949	absorption, solar radiation 5283	tannins, content, tea 8265 MSMA
2,4-DES, residues, fruit, strawberry 546	decomposition, red currant 7500	injury
dicamba	injury	oil palm 4067
persistence, essential oil plants, fruit	application methods, sugar cane	tropical crops 8134
trees and plants, vetiver 2495 toxicity, essential oil plants, fruit trees	7238 bean (<i>Vicia</i>) 4488	N-phenacetyl amino acids, seed, germination, inhibition 8637
and plants, vetiver 2495	blueberry 8492	naptalam
dichlobenil	lettuce 1967	flower, sex, cucumber and gherkin
injury	prevention, sugar cane 7238	8647
apple 4997	sugar cane 9237	injury, squash 624
aspargus 2827 citrus 3989	persistence, soil, vegetables 1947 residues, determination, tree fruits	translocation, growth substances, bean (<i>Phaseolus</i>) 5988
container-grown plants 2986	6514	nitralin
grapevine 3570	tolerance	application, water-soluble plastic sheet,
ornamental plants 8851, 8853	grapevine 5839	vegetables 1140
peach 1819 raspberry 2685	sugar cane 7238 translocation	bedding plants 2171
trees and shrubs 4614	bean (Vicia) 4488	chrysanthemum 6144
interaction, rootstocks, apple 4997	red currant 7500	cucumber and gherkin 625, 5209
residues	solar radiation 5283	prevention, vegetables 1140
soil 1683 fruit trees and plants 6542	EL-179, application, soil, methods, vegetables 680	residues, application, methods, vegetables 1949
root, growth, apple 4997	endothal	tolerance, orange 8065
tolerance, stone fruits 3510	absorption, lawns and sports turf 5445	nitrofen, injury, bean (Phaseolus) 8683
dichlormate, plant responses, bean	injury, ethylene production, bean	noruron, -fertilizer mixtures 1682
(<i>Phaseolus</i>) 641 dichlorprop, injury, lettuce 1967	(Phaseolus) 4483	Oxadiazone, application, methods
difenoxuron, injury, measurement, onion	metabolism, lawns and sports turf 5445	compared, grapevine 7561 paraquat
1251	translocation, lawns and sports turf	application, irrigation, vegetables 6903
dinitroanilines, tolerance, vegetables	5445	desiccation, sugar cane 4894
1267 dinoseb	Eptam, residues, fruit, strawberry 2700 EPTC	enzyme activity, inhibition, sugar cane
disease incidence, bean (<i>Phaseolus</i>)	injury	8251 fungus control
8687	azalea 4614	Mycogone pernicosa, mushroom
flower, sex, cucumber and gherkin	container-grown plants 2986	. 8824
8647	prevention 3660	Verticillium malthousei, mushroom
injury, melon (cantaloup and musk) 624	plant, responses, bean (<i>Phaseolus</i>) 8684	8824 injury
plant responses, bean (Phaseolus) 641	fenac, tolerance, sugar cane 9239	blueberry 8493
tolerance, cucumber and gherkin 627	fluorodifen, translocation, cucumber	oil palm 4067
dinoterb, injury, bean (<i>Phaseolus</i>) 8683	6830	residues, vegetables 6905
diphenamid disease incidence, capsicum 2843	flurenol, responses, pea 4500	Patoran, leaf, chlorophyll, content,
injury	glyphosate, tree fruits, annual report, UK 8316	valerian 8045 Paxilon, injury, application time, onion
aspargus 2827	GS-14254	6031
humidity, tomato 3797	injury, orange 8065	pebulate, injury, tomato 6904
light intensity, tomato 3797 tolerance, tomato 4549	persistence, orange 8065	pentanochlor, enzyme activity, tomato
diquat	proteins, content, bean (<i>Phaseolus</i>) 5995	6926 phenmedipham, injury, spinach 7618
application, irrigation, vegetables 6905	GS-21704, injury, peach 5032	phenoxy acids, -fertilizer mixtures 1682
desiccation	haloxydine	picloram
pea, annual report, UK 3611	chloroplast	persistence, essential oil plants, fruit
seed, germination, pea, annual report, UK · 3611	development, radish 5202 structure, radish 5202	trees and plants, vetiver 2495 proteins, biosynthesis, bean (<i>Phaseolus</i>)
flowering, control, sugar cane 1651	injury, brussels sprouts 7651	6855
residues, vegetables 6905	interaction, fungicides, shallot 1258	residues, plant, sugar cane 9241

Subject Index		1029
Herbicides contd.	Herbicides contd.	Heterodera rostochiensis contd.
picloram contd.	terbutryne	population suppression, by compositae
toxicity, essential oil plants, fruit trees	absorption, legumes 4468	283
and plants, vetiver 2495	injury	resistance, rootstocks, tomato pests 2121
translocation, sugar cane 9241 potassium azide, injury, tomato 6068	application methods, legumes 5888 bean (<i>Phaseolus</i>) 3700	tomato pests 5352, 6088 annual report, UK 5885
prometon, injury, pineapple 8172	proteins, content, bean (<i>Phaneolus</i>)	H. schachtii
prometryne	5995	beetroot pests 1149
bulb, composition, onion 7747	tolerance, legumes 4468, 5888	brussels sprouts pests 5194
injury	testing	cabbage pests 1149
capsicum 667	spray cabinet 8	annual report, USA 8585
carrot 7816 persistence, pineapple 8172	tomato 252	population studies, cabbage pests 5927 soil furnigation, cabbage pests 5927
plant, composition, carrot 5376	Tordon 22K, injury, pea 2051 triazines	H. trifolii
residues	enzyme activity, pea 2070	beetroot pests 3317
fruit, strawberry 2700	injury, grapevine 6733	cabbage pests 3317
root, carrot 5376	nutrients, content, vegetables 4485	Heteropappus spp., flavonoids, content
injury, lawns and sports turf 7922	proteins	1431 Heteropeza pygmaea, mushroom pests
tolerance, vegetables, ornamental plants	content	2150
6779	bean (<i>Phaseolus</i>) 2012	Hibiscus
propachlor	pea 2070	annual report, Netherlands 4604
maturity, cauliflower and broccoli	annual report, Irish Republic 5150	breeding and selection, annual report,
plant responses, bean (<i>Phaseolus</i>) 641	vegetables 4485	Belgium 8835 growth substances, dwarfing, chlormequat
pyrazon	tolerance 1650	1384
injury	trietazine, residues, fruit, strawberry	Hibiscus spp.
carnation 2921	2700	annual report, USA 1441, 6129, 8834
spinach 7618	trifluralin	diseases, Microxyphiella hibiscifolia, on
residues, application, methods,	injury	plant secretion 4721
vegetables 1949 R-7465, tolerance, orange 8065	bedding plants 2171 container-grown plants 2986	ethylene, production, flower abscission layer 7049
Ramrod, tolerance, brassicas 3662	pea 4501	flower
RH 315	tomato 8770	abscission layer
injury, carnation 2921	maturity, cauliflower and broccoli	ethylene production 7049
residues, application, methods,	1164	growth substances, endogenous 7049
vegetables 1949 Semeron, tolerance, brassicas 3662	residues, application, methods, vegetables 1949	flowering, date, growth substances 7052 growth substances
semeron 25, plant, thinning, vegetables	responses, tomato 6066	endogenous, flower abscission layer
7648	yield increase, grapevine 1902	7049
simazine	2,4,5-T, injury, lettuce 1967	flowering
enzyme activity, tea 8265	unspecified, injury, fruit, annual report,	ancymidol 7052
fungus control, Verticillium malthousei,	USA 24	chlormequat 7052
mushroom 8824 injury	various application	ethephon 7052 retardants
grapevine 3570, 5839	equipment, oil palm 2457	ancymidol 7052
plum 4188	mulches, ornamental plants 8853	chlormequat 6212, 7052
prevention, activated carbon,	injury	review 7846
strawberry 545	apple 7316	pigments 2306
strawberry 8511	cucurbits 623	propagation, cuttings 2167
testing, bean (<i>Phaseolus</i>) 193 leaf	ornamental plants 5392 sugar cane 405	taxonomy, cytotaxonomy 4720 varieties, annual report, Netherlands
nitrogen, content, apple 968	plant, composition, tomato 6067	6127
sugars, content, apple 968	residues, soil, vegetables, annual report,	H. syriacus, varieties 321
nitrogen, plant content, strawberry	UK 5154	High denisty planting, apple, annual report,
545	responses, ornamental plants 8852	UK 903 High density planting
persistence, soil, apple 2561 photosynthesis, tea 8265	root " growth	High density planting apple 464, 925, 1729, 1737, 2548, 3390,
potassium, plant content, strawberry	apple 1739	3401, 7348
545	container-grown plants 7847	annual report
proteins, content, bean (Phaseolus)	tolerance	Irish Republic 1720
5995	annual report, Austria 265	UK 3371
residues 2700	gooseberry, annual report, UK 529	for juice production 1738
fruit, strawberry 2700 soil 1683	lettuce, annual report, UK 5154 ornamental plants 2173, 2173	cherry 995 citrus, report, Sri Lanka 6323
apple 6543	VCS-438, injury, onion 6029	coffee 7195
annual report, Australia 6523	Venzar, injury, strawberry, annual report,	economics, apple 463, 7331
respiration, tea 8265	German Federal Republic 8481	fruit transport, pallets 3362
soil nutrient availability, apple 935	vernolate residues	fruit trees and plants 904 annual report, Italy 6507
tannins, content, tea 8265 tolerance	fruit	lemon 3104
black currant 5081, 6672	strawberry 1698	light, interception, fruit trees and plants
stone fruits 3510	tomato 1698	1710
translocation	Herbs	light intensity, mandarin and tangerine
black currant 5081	essential oil 8973	8064
annual report, UK 3521 marrow, annual report, UK 5943	Italy 6244	light interception apple 7354
marrow, annual report, UK 5943 yield increase	products and by-products 8973 review 8973	fruit trees and plants 2558
black currant 6672	value	mechanical, apple 1726
pear 8466	aesthetic, book 4607	olive 2421, 4025
2,3,6-TBA, injury, lettuce 1967	functional, book 4607	pear 3489
terbacil	Hercinothrips bicinctus, banana pests 4835	pome fruits, annual report, Australia 450
banana 9129	Herpetis spp., plant, composition 769 Herpetogramma licarsisalis, lawns and	rootstocks, apple 8344 Switzerland
grapevine 3570	sports turf, pests 5451	statistics
peach 452	Hesperomyces virescens, fungal parasite on,	apple 8324
pecan 5056	Chilocorus bipustulatus 1490	apricot 8324
sisal 7992	Heterodera rostochiensis	cherry 8324
stone fruits 3510	control, tomato pests 6089	damson 8324
sugar cane 9237 tolerance	host-pest relationships, tomato pests 4581	peach 8324 pear 8324
stone fruits 3510	population studies, nematicides, tomato	plum 8324
sugar cane 9239	pests 7800	tree fruits, annual report, Australia 8313

High density planting contd.	Нор	Hop diseases contd.
varieties, apple 8344	annual report	Verticillium albo-atrum
Himacerus apterus, biological control of,	Belgium 6272	control 7091
Aegeria myopaeformis 3409	German Federal Republic 7063–7064,	cultural methods 3325
Hippeastrum, forcing 6165	7087 UK 3040, 3954, 9009	incidence 7092 resistance, enzyme activity 8691
Hippeastrum diseases annual report, Netherlands 2219	USA 324	varietal resistance 3956
mosaic virus, indicator plants 1368	breeding and selection	V. dahliae, incidence 7092
Hippophaë spp.	Czechoslovakia 6273	V. spp., control 6279
flower, flavonoids 6238	triploids 3042	Hop disorders, crinkle, zinc deficiency
fruit (238	clones, Czechoslovakia 7993	6276 Hop growth substances, cuttings, treatment,
ascorbic acid 6238 carotene 6238	drying 1420, 3048	IAA 5504
flavonoids 6238	fungicides 3958	Hop leaf, removal, chemical 3958
vitamin B 6238	absorption, streptomycin 1419	Hop nutrition 3041
vitamin E 6238	residues, streptomycin 1419	boron, deficiency 6499 FYM 5509, 6275
fungicides	translocation, streptomycin 1419	general, organic and inorganic compared
plant	growing, Czechoslovakia 7993	9010
height, TMTD 7957 size, TMTD 7957	harvesting mechanical	organic fertilizers 7090, 9010
glycosides 7053	equipment, types compared 5513	phosphorus 5509 zinc 6276
leaf, flavonoids 6238	labour management 3960	Hop pests
nutrition 7957	herbicides 3321, 3958	aphids, control, annual report, German
seed	insecticides 3958	Federal Republic 7964
germination, ripeness 5481	pest resistance 3046 residues, tamaron 4143	deer, repellants, varietal preference 7095 German Democratic Republic 1691
production, harvesting, time of 5481 treatment	irrigation 3044	hares, repellants, varietal preference 7095
fungicides, TMTD 7957	economics 3044	Phorodon humuli 3041, 4748
nutrients 5482	recommendations, Czechoslovakia 343	annual report, UK 2330
Holarrhena febrifuga, alkaloids 8026	requirements, determination 3043 molluscicides 3958	control 5511–5512, 7094 insecticide resistance 3046
Holly	monoecious, tetraploid plant 4749	Tetranychus telarius, integrated control
breeding and selection, annual report, Canada 8836	organic acids 6783	7093
cold	determination 7995–7996	Xiphinema diversicaudatum, virus,
protection, plastic films 7037	photosynthates, translocation 3959 photosynthesis 3959	vectors, arabic mosaic 3041 Hop plant
resistance, testing 3912	planting	composition
flowering	root restriction 7089	copper 344
photoperiodism 6215	time 5505–5506	manganese 344
secondary, photoperiodism 6215 growing	processing, drying 9011 products and by-products, granulated	zinc 344 Hop propagation
in containers 3912, 6214	leaves, animal fodder 6281	cuttings
weed control 4614	pruning and training 4750	growth substances, IAA 5504
media, bark, manganese toxicity 4691,	methods compared 3041	soilless culture 5504
6216	stringing, materials 5507 wirework construction 5508	Hop soil, cultivation, methods compared 3041
under plastic 7037 herbicides	research	Hop varieties
injury	annual report, German Federal	annual report, Irish Republic 3957
dichlobenil 2986, 4614	Republic 340	comparative trials, Czechoslovakia 341
EPTC 2986	Belgium 4748	cone
trifluralin 2986 organic acids, content, seasonal variations	Czechoslovakia, review 7088 resins, determination 7997	essential oil, content 7994 organic acids 3956
3926	spraying	disease resistance, Verticillium albo-atrum
photoperiodism	equipment 3045	3956
flowering 6215	methods compared 5512	German Federal Republic 342
growth 6215 pots, types compared 6214	stomata, movements, disease infection, Pseudoperonospora humuli 5510	lupulins, metabolism 7998 Hoplocampa testudinea
tissue culture, embryo 4692	storage	apple pests, annual report, UK 8318
weed control 2986, 4614	lupulins, metabolism 7998	varietal resistance, apple pests 8380
weeds, competition, container-grown	sulphur dioxide, application 1421	Hoplolaimus spp., sugar cane pests 7246
plants 4693 wind, protection, plastic films 7037	sulphuring 6280 Hop cone	Horse-radish nutrition nitrogen 3936
winter hardiness	composition	sources, compared 8972
containers, types compared 6214	bitter acids 6273-6274	phosphorus 3936
nitrogen nutrition 2311	resins 6273–6274 essential oil, content, varietal differences	potassium 3936 Horse-radish root
Holly fruit, pigments, taxonomic studies 7038	7994	anatomy 5917
Holly leaf	iso α-acids, content, seeded and seedless	carbohydrate storage 5917
composition	compared 3047	volatile constituents 757
nitrogen 3912 potassium 3912	lupulins, metabolism, varietal differences 7998	Horticultural economics, Scotland 12
Holly nutrition	morphology 6273–6274	engineering, book 2497
manganese, toxicity 4691, 6216	organic acids	legislation, EEC 5692
nitrogen 2311	content, seeded and seedless compared	production, Europe, book 6473-6474
container-grown plants 267 sources 3912	3955 varietal differences 3956	research institutes, directory 7278 science, book 1670
winter hardiness 2311	photosynthesis 3959	Horticultural crops
potassium 2311, 3912	Hop diseases	appearance, improvement techniques
Holly soil	annual report, German Federal Republic	7308
salinity chlorine 2161	7087 arabis mosaic, vectors 3041	common names, multilingual glossary 7030
plant, tolerance 2161	Fusarium oxysporum, control 7091	diseases
sodium 2161	F. spp., control 6279	general
temperature containers 6214	German Democratic Republic 1691	book 6497
mulching 6214	Pseudoperonospora humuli 1419, 3045, 4748	resistance 4137 economics
Holly varieties, Netherlands 4690	forecasting 345, 6277	Netherlands 5672
Hollyhock, tissue culture, light 726	incidence 6277	symposium 2486
Hollyhock diseases, Bacterium tumefaciens, tissue culture 726	infection process, stomatal opening	growing, under plastic, annual report,
Homona coffearia, tea pests, annual report,	5510 Sphaerotheca humuli 4748	Irish Republic 6482 irradiation, uses, review 4124
Sri Lanka 8262	control 6278	marketing, symposium 2486

oubject index		1031
Iorticultural crops contd.	Hyacinth disorders, hollow nose, herbicide	Hylemya spp. contd.
phytoalexins, review 4137	injury 2947	cauliflower and broccoli pests contd.
pollination, insects, review 7282	Hyacinth pests, Macrosteles sexnotatus,	annual report
production and trade, symposium 2486	mycoplasma, vectors 290	Canada 5883
quality, improvement techniques 7308	Hyacinth seed	UK 5154
review, FAO 3297	germination 7008	seed treatment, radish pests 4438
statistics 2485	production 7008	swede pests, annual report, Canada 5883
survey, UK 4123	Hyaloides spp., predator on, Panonychus	vegetables, pests, annual report, Canada
Hosta spp.	ulmi, apple 4213	1944, 2734
propagation, rhizome 4613	Hyalopterus arundis, control, peach pests 7448	Hylocereus spp., edible fruits 822
tuliposides 8908	Hybrids	Hylomecon vernalis, alkaloids, content
doya spp., diseases, Glomerella cingulata	interspecific 2902	1429
2307	cacao, annual report, Ghana 7177	Hymenobosmina spp., parasite of,
lumates	citrus 5545	Batrachedra amydraula, date 1514
media constituent	peach × plum 4244	Hymenocyclus spp.
nutrient solutions, tomato 8774	tea 6456	ground cover plants 710
soil, tomato 8774	seed, production, coconut 5615	weed control 710
lumic acid	Hydrangea	Hyoscyamus desertorum
ascorbic acid	flowering	alkaloids 6301
content	light	flower
cucumber and gherkin 684	artificial 8841	anatomy 6302
tomato 684	supplementary 8841	histology 6302
enzyme activity	supplementary 8841	H. niger, virus indicator plants 1368
cucumber and gherkin 684	growing	H. spp.
tomato 684	in greenhouses, glass, plastic 8841	flower
growth substances	peat, nutrition, nitrogen 8941	anatomy 6302
endogenous	heat treatment, virus control 7054	
cucumber and gherkin 684	light	histology 6302
tomato 684	artificial	Hypericum spp.
pectins, content, tomato 6072	equipment 8841	herbicides, injury 1323
	flowering 8841	phenolic compounds 5525
phosphates metabolism	supplementary	Hyperodes humilis, cabbage pests, annual
	equipment 8841	report, USA 4367
cucumber and gherkin 684 tomato 684		Hyperomyzus lactucae
	flowering 8841	black currant pests 5802
respiration	pigments, biosynthesis, tissue culture 7055	small fruits, pests 5079
cucumber and gherkin 684	pollination 1396	vectors, necrotic yellows, lettuce pests
tomato 684		7631
fumidity, relative	tissue culture, leaf, pigments, biosynthesis	Hyphaene thebaica
boron, absorption, sugar cane 4102	7055	alkaloids, content, fruit 6470
celery 8815	Hydrangea diseases	
control, light, vegetables, annual report,	mycoplasma 5410	fruit, composition 6470
Netherlands 8581	control, antibiotics 5410	glycosides, content, fruit 6470
disease incidence	ring mosaic 4722	medicinal properties 6470
azalea 6225	ringspot 7054, 8962	pollen, composition 8280
Colletotrichum spp., coffee 5620	Hydrangea flower	seed, composition 8280
Leveillula taurica, tomato 8781	bud initiation 2996	sugars, content, fruit 6470
Peronospora destructor, onion 3763	pigments, annual report, Belgium 5386	Hypocyrta spp., growing, in pots, annual
Verticillium dahliae, cacao 7182	Hydrangea growth substances	report, Netherlands 6127
flowering, sugar cane 8250	injury, chlormequat 8842	Hypopholis sommeri, sugar cane pests,
growth studies	responses	annual report, South Africa 7230
nitrogen nutrition, apple 7351	aminozide 8842	Hypothenemus hampei, population studies,
soil moisture, apple 7351	chlormequat 8842	host orientation, coffee pests 9170
leaf, composition, apple 2586	Hydrangea pests, Ditylenchus dipsaci,	Hyptis emoryi, plant, composition 8028
nitrogen nutrition, apple 2586	annual report, UK 6128	Hyssop
varietal behaviour, sugar cane 8250	Hydrangea propagation	ascorbic acid, content, leaf 4728
water relations	budding, chip budding 1396	carotene, content, leaf 4728
culture solution osmotic potential,	cuttings 1396	Ilex spp.
mustard 8985	Hydrangea varieties	containers
sugar cane 4102	Harmony 1396	depth 8943
Hungary	Roanoke 1396	types compared, soil temperature 7036
capsicum, growing 4530	Hydrastis canadensis, alkaloids 8027	growing
cherry, economics 6614	Hydroecia micacea, hop pests, annual	in containers
hazel varieties, comparative studies 6621	report, German Federal Republic 340,	irrigation 8943
peach	7064, 7087	soil moisture 8943
growing, review 6622	Hylemya antiqua	weed control 8853
production and trade 6622	control, onion pests 8742	peat, nutrition, nitrogen 8941
squash, growing 7672	leek pests 662	herbicides
stone fruits, growing 4946	onion pests 1255	application, mulches 8853
tomato, growing, for processing 7778	annual report	injury, dichlobenil 8853
Huntleya spp.	German Federal Republic 7599	propagation, cuttings, media 3838
flower, bud initiation, temperature 2273	Netherlands 6772	taxonomy, chemotaxonomy 7038
nutrition 2273	H. brassicae	tissue culture, polyembryony induction
temperature, flower bud, initiation 2273	brassica pests 1173	3911
Hurricane, damage, disease incidence,	brassicas, pests, annual report, German	Illicium spp., essential oil, composition,
persimmon 4827	Federal Republic 8579	determination 7066
Iyacinth	cabbage pests 1174	I. verum, bibliography 7967
air pollution, sulphur dioxide, ethylene,	annual report, UK 1934, 3610	Illustrations, coloured
injury 6132	chemosterilization, cauliflower and	deficiency symptoms, ginger 5492
annual report, Netherlands 2219	broccoli pests 8625	diseases
breeding and selection, seed, production	traps, bait, cauliflower and broccoli pests	fruit trees and plants 1689
7008	8625	India 860
forcing 6165	H. cilicrura	virus
herbicides, injury, chlorpropham 2947	bean (Phaseolus) pests 5252	apple 2575
Hyacinth bulb	seed treatment, bean (Phaseolus) pests	pear 2575
heat treatment, bacteria control 2242,	8692	disorders, fruit trees and plants 1689
4656	soil treatment, bean (Phaseolus) pests	varieties
storage, temperature 2242, 4656	8692	apple 1724
Jyacinth diseases	H. platura, control, cucumber and gherkin	apricot 1724
aster yellows 7007	pests 5928	cherry 1724
"Lisser" syndrome, indicator plants 290	H. spp.	nectarine 505, 4246-4247
Xanthomonas hyacinthi, bulb treatment,	brassicas, pests, annual report, UK 4366	papaw 1606
heat 2242, 4656	cauliflower and broccoli pests 1162	pear 1724
	F	

Impatiens	Insecticides contd.	Insecticides contd.
enzyme activity	azinphos-methyl, fungus control,	demeton-methyl
growth substances 7884	Mycosphaerella ligulicola,	plant metabolism, mandarin and
leaf, petiole glands 4642	chrysanthemum 6973 BHC	tangerine 3138 residues, fruit, mandarin and tangerine
photoperiodism 7884 flowering, enzyme activity 7884	injury, application methods, sugar cane	3138
ozone, injury 1322	8236	diazinon
photoperiodism	interaction, nitrogen nutrition, sugar	injury
enzyme activity 7884	cane 7251	papaw, report, USA 6382
interaction, growth substances 7883	residues	vegetables 2123
sulphur dioxide, injury 1322	leaf, tea 4900	persistence, soil 1255 dichlorvos
Impatiens flower, pigments, tissue culture 284	soil, tea 4900 binapacryl, residues, tea 4898	injury
Impatiens growth substances	bromophos	application method, chrysanthemum
enzyme activity, plant, GA 7884	injury, bean (Phaseolus) 8692	4629
interaction	residues, determination, cherry 4238	cherry 2625 residues, cap, mushroom 8826
photoperiodism	carbamates	dicofol
cycloheximide 7883	injury, vegetables 2742	persistance, peach, annual report,
GA 7883 Impatiens varieties	pest resistance Aeneolamia varia saccharina, sugar	Canada 2515
bedding plants 2214	cane 9254	plant metabolism, mandarin and tangerine 3138
pot plants 2214	Phorodon humuli, hop 3046	residues
Imperata cylindrica	carbaryl	fruit, mandarin and tangerine 3138
as weeds	Aeneolamia varia saccharina, sugar	tea 4898
coconut 9147	cane 8235	dieldrin
control by, <i>Gliricidia maculata</i> , rubber 8179	fruit russeting, apple 1784	absorption eggplant 4546
L. spp.	size, apple 3423	turnip 2762
as weeds 841	thinning	injury, vegetables 2123
oil palm 1600	apple 974, 1784, 3422-3423,	residues
rubber 7224, 9209	8405–8406	fruit, tomato 8787
tea 4106 Incense plants, Jurinea macrocephala 6322	annual report, Netherlands 5697	plant bean (<i>Phaseolus</i>) 646
India	injury, tomato 1288	eggplant 4546
apple, growing, high altitudes 7311	carbofuran, residues, plant, cabbage 8627	soil
apricot, growing, high altitudes 7311	CELA K 673 5685	bean (Phaseolus) 646
Bursera delpechiana, growing 8994	CELA S 2957 5685	cauliflower and broccoli 4431
cardamoms, growing 7068 coconut, economics 9150	chlorfenvinphos injury, poinsettia 8945	sugar cane 5653 translocation, turnip 2762
coffee, growing 8145	persistence, carrot 6942	dimefox, pest resistance, <i>Phorodon</i>
crops, diseases 860	residues 1173	humuli, hop 3046
date, growing 6371	chlorpyrifos	dimethoate
guava, economics 5624	application as emulsifiable concentrates,	flower bud, development, apple 6572 fruit
jasmine, growing 8840 medicinal plants, survey 5515	vegetables 2506	ripening, Ficus sycomorus 1811
mint, growing 5500	as granules, vegetables 2506	russeting
onion, growing, in the rainy season 6874	residues	apple 1769
ornamental plants, growing 8840	determination	prevention, apple 8383
peach, growing, high altitudes 7311	fruit 4142 vegetables 4142	growth, increase 48 injury, tung 8117
pear, growing, high altitudes 7311 plum, growing, high altitudes 7311	plant, lettuce 2506	plant composition, mandarin and
rose, growing 8840	Cygon, injury, tomato 4576	tangerine 3138
tea, growing 7265	Dasanit, persistence, soil 1255	plant metabolism, mandarin and
walnut, growing, high altitudes 7311	DDD residues	tangerine 3138 residues
Ziziphus spp., growing 5665 Indium, toxicity, cucumber and gherkin	fruit	cap, mushroom 8826
157	apple 5740	caraway 326
Indonesia	pear 5740	determination, tomato 7777
coconut, growing 9147	DDE	fennel 326
mushroom, growing 6121 Inga edulis, as shade plants, coffee 9162	residues fruit	fruit banana, annual report, Australia
Inopus spp., sugar cane pests, annual report,	apple 5740	5600
Australia 9219	pear 5740	mandarin and tangerine 3138
Insecticidal plants	plant, bean (Phaseolus) 646	plant, grapevine 5863
Annona squamosa 1534 Melia azedarach 4751	soil	root, radish 4438
Millettia spp. 4752	bean (<i>Phaseolus</i>) 646 cauliflower and broccoli 4431	dimethyl phosphoroamidothioate, residue fruit, tomato 8788
Insecticides	DDT	dinocap, residues, tea 4898
acephate 4932	absorption	dioxathion 1744
aldicarb, residues, tomato 1292	eggplant 4546	disulfoton (Wini) 4400
aldrin absorption	from soil, mint 7988 mite populations, apple 5737	application, dusts, bean (<i>Vicia</i>) 4490 injury, application methods, bean
eggplant 4546	persistence, radish 619	(Vicia) 4490
turnip 2762	residues	Disyston, persistence, soil, radish 1180
metabolism	fruit	DNOC
bean (Phaseolus) 2033	apple 5740	fruit
bean (<i>Vicia</i>) 2033 pea 2033	pear 5740 tomato 8787	thinning annual report, Australia 450
residues	leaf, tea 4900	peach 4263
plant, eggplant 4546	plant	DS-15647, injury, tomato 4576
soil	bean (Phaseolus) 646	Dyfonate, persistence, soil 1255
cauliflower and broccoli 4431 sugar cane 5653	eggplant 4546	efirsulphonate
translocation, turnip 2762	soil bean (<i>Phaseolus</i>) 646	plant metabolism, mandarin and tangerine 3138
arprocarb resistance, Aeneolamia varia	cauliflower and broccoli 4431	residues, fruit, mandarin and tangerine
saccharina, sugar cane 8235	plant absorption, mint 7988	3138
arsenic	tea 4900	endosulfan
residues fruit 3329	root, nodule formation, bean (<i>Vicia</i>) 201	residues
soil, annual report, USA 24	demephion, residues, cap, mushroom	fruit, boysenberry 5812 vegetables 2124
tea 3329	8826	endrin
vegetables 3329	demeton, injury, chrysanthemum 6976	absorption, eggplant 4546

Subject Index		1033
Insecticides contd.	Insecticides contd.	Integrated control contd.
endrin contd.	nicotine, injury, application method,	Dysaphis plantaginea, apple, annual
residues	chrysanthemum 4629	report, Netherlands 5698
plant	oil	grapevine pests 4350
bean (Phaseolus) 646	emulsifiers, fruit dips, orange 1493	mealybugs, citrus 9096
eggplant 4546	fruit, colour, orange 5564	Operophtera brumata, apple, annual
soil, bean (<i>Phaseolus</i>) 646 fenitrothion, carbon dioxide fixation,	injury apple 4989	report, Netherlands 5698
darkness, bean (Vicia) 8710	chinese gooseberry 5080	Panonychus ulmi apple 8394
fensulfothion, residues 1173	tolerance, apple 3411	apple pests 1756
formothion	organo-tin, synergism, fungicides, annual	peach pests 514
plant composition, mandarin and	report, India 1657	Phylloxera vitifoliae, grapevine pests
tangerine 3138	organophosphorus	1921
plant metabolism, mandarin and	residues	Rhabdoscelus obscurus, sugar cane 4099
tangerine 3138 residues, fruit, mandarin and tangerine	determination, vegetables, cherry 3330	scales, citrus 9096 strawberry pests 2703
3138	plant, vegetables, cherry 3330	Tetranychus telarius
-fungicide mixtures	parathion	hop 7093
application, reduced concentration,	compatibility, tomato 1288	rose 4711
apple 2585	residues, determination 7303	vegetables 7802
cucumber and gherkin 6820	Perthane	Thomasiniana theobaldi, raspberry 2688
fruit	residues	Trialeurodes vaporarium, vegetables 7802
ascorbic acid, content, apple 2585 russeting, apple 1769	fruit, pear 2500 plant, spinach 2500	vegetables, pests 3627
sugars, content, apple 2585	phorate 2500	Interstocks
responses, garlic 6023	application, dusts, bean (Vicia) 4490	for Beurré Bosc, pear 5784
Furadan, injury, tomato 4576	residues, essential oil, mint 8997	comparative trials, apple 6532, 6535
heptachlor	root, nodule formation, bean (Vicia)	Malling rootstocks, apple 930
absorption, eggplant 4546	201	root composition, apple 1727
residues, plant, eggplant 4546 root, nodule formation, bean (<i>Vicia</i>)	phosalone carbon dioxide fixation, darkness, bean	root systems, apple 6535
201	(Vicia) 8710	Inula grandis, growing, USSR 7111
heptachlor epoxide	residues, fruit, strawberry 8517	I. spp.
absorption, eggplant 4546	phosvel, injury, watermelon 6824	composition 7110
residues, plant, eggplant 4546	Plictran, injury, rose 4712	essential oil 7110
hexachlorobutodiene, persistence,	Sevin, leaf, sugars, content, apple 3418	Iodine
grapevine 2724	Tamaron, residues 4143	fruit feijoa 7163
iodofenphos, residues, determination, cherry 4238	Telodrin, interaction, nitrogen nutrition, sugar cane 7251	composition, black currant 8486
isobenzan, yield increase, sugar cane	Temik, persistence, tomato 4577	size, black currant 8486
7250	tetrachlorvinphos, injury, apple 4289	sugars, content, grapevine 8553
Kelthane, leaf, sugars, content, apple	tetradifon	iron absorption, grapevine 8553
3418	plant composition, mandarin and	shoot, sugars, content, grapevine 8553
lead arsenate, residues, plant, vegetables	tangerine 3138 plant metabolism, mandarin and	Ipomoea spp., electrical activity 3847
lindane	tangerine 3138	L spp. fatty acids, metabolism 8591
absorption	residues, fruit, mandarin and tangerine	flower
pea 6863	3138	bud initiation
from soil, mint 7988	thiometon, pest resistance, Phorodon	chromatin, activity 3849
residues	humuli, hop 3046	nucleic acids, biosynthesis 3849
fruit	tolerance, annual report, Austria 265	growing, vegetable crop 6119
apple 5740 pear 5740	toxaphene residues	growth substances dwarfing
soil	plant, bean (Phaseolus) 646	AMO-1618 6151
cauliflower and broccoli 4431	soil, bean (Phaseolus) 646	chlormequat 6151
plant absorption, mint 7988	trichloronate	juvenility
root, nodule formation, bean (Vicia)	injury, bean (Phaseolus) 8692	AMO-1618 6151
201	residues	chlormequat 6151 GA 6151
translocation, pea 6863 malathion	root, radish 4438 vegetables 1173	juvenility, growth substances 6151
residues	trichlorphon	leaf
bean (Phaseolus) 183	growth, increase 48	composition
fruit, date 8107	residues, determination, tomato 7777	protein 6119
menazon, persistence, pea 4504	vamidothion, residues, spinach 4393	vitamins 6119
methidathion	various	nucleic acids, biosynthesis, flower bud, initiation 3849
injury tomato 3808	application economics, fruit trees and plants	propagation, cuttings, treatment, growth
vegetables 2123	4153	substances 2930
methomyl	equipment 4933	taxonomy, key 3846
residues	as granules, placement, carrot 5374	tissue culture, cell suspension, fatty acids,
essential oil, mint 8997	residues	metabolism 8591
fruit 2507	carrot, annual report, UK 1934	as weeds, sugar cane 9236
plant cabbage, chinese 2507	determination, sugar cane 7249 fruit, fruit trees and plants 3328	Iridaceae, ornamental species, Denmark 3863
tea 2507	plant	Iridomyrmex humilis, predator on, Aphytis
methyl-parathion	fruit trees and plants 4141	melanis, citrus 1492
residues	vegetables 3328, 4141	Iris
plant	removal, vegetables 1699	annual repoort, USA 1315
fennel 2320	tolerance, ornamental plants 2173	annual report Netherlands 2219
mint 2320 mevinphos, as mutagen, tradescantia	Integrated control Adoxophyes orana, apple, annual report,	UK 3834, 3874
1346	Netherlands 5698	flavones 2246, 6178
monocrotophos	annual report	flowering
injury, chrysanthemum 6976	Canada 2515, 5695	bulb treatment 5424
residues	USA 24	date
determination 7302	aphids, apple 2579	bulb lifting time 8895
leaf	apple pests 478 annual report, German Federal	bulb storage temperature 8895 forcing 1359, 6165
apple 615 cabbage 615	Republic 6506	media compared, annual report, UK
N-2596, residues 1173	cucumber and gherkin pests 5217	8838
naled	annual report, UK 6774	growing
fruit, set, tomato 2122	Cydia molesta, peach pests 514	long-term 2243
injury, tomato 2122	C. pomonella, apple 5739	under plastic, annual report, UK 4606

Iris contd.	Iron contd.	Irradiation conta.
planting, time, annual report, USA 2152	content contd.	fast neutrons contd.
respiration, bulb, ethylene, treatment	fruit	seed, flower sex, cucumber and gherkin
2245	flower, peach 6631	5949
sterols, content 6177	peach 6631	gamma rays
temperature, flower bud initiation 297	irradiation resistance, pea 1241	amino acids, biosynthesis, kohl-rabi
Iris bulb, drying 1359	leaf	5931
Iris bulb	nitrogen nutrition, sources, peach	bulbs
drying 8895	3470	post-harvest
production 287	seasonal variations, apple 6554	onion 4527
annual report	varietal differences, apple 6554	storage life
Italy 6960	nitrogen nutrition, tea 6457	composition, onion 1256
UK 2153	shoot	
treatment, temperature, flowering 5424	root temperature, chrysanthemum	onion 3771
Iris diseases 2243	8863	cap, post-harvest, mushroom 7841
Penicillium spp., annual report, USA	seasonal variations, apple 6554	cuttings, chrysanthemum 6970
6129	varietal differences, apple 6554	disease control
Sclerotium wakkeri 3317		apple 982
	zinc nutrition, grapevine 1912 deficiency 3299	grapevine, annual report, India 2668
Iris flower bud initiation	annual report, UK, pear 3347	vanilla, annual report, France 754
	citrus nutrition 1480	essential oil, content, rose 5471
ethylene 8895	coffee 9166	fruit
temperature 297		carbohydrates, metabolism, banana
cut, production 287	cucumber and gherkin 7683	6390
Iris growth substances	diagnosis, enzyme activity, vegetables	flavour, apple, annual report, Canada
endogenous, leaf, translocation 706	1145	1719
rhizome bud, number, MH 5426	symptoms	
Iris nutrition	cauliflower and broccoli nutrition	mechanical injury resistance, citrus
phosphorus, residues from straw burning	1983 gingar 5402	9103
2243	ginger 5492	pigments, tomato 5365
potassium, residues from straw burning	pineapple 9200	post-harvest 1504
2243	tomato 7789	apple 984
Iris propagation	determination	avocado 1462
axillary buds, tissue culture 5425	ascorbimetry, vegetables 605	mango 1596
rhizome 4613	ferrozine, spinach 3303	pear 1034
treatment, growth substances 5426	disease resistance, lemon nutrition 364	storage life
Iris seed	disorder incidence	apple 2601, 7410–7411
composition 2943	chlorosis, peach 8457	banana 4043
oil 2943	fruit trees and plants, nutrition 4947	tropical fruits 2435
sugars, content 8883	fruit	ripening, tomato 4580
Iris soil	composition	injury
amendments	grapevine 3580	apple 3415–3416
compared 4657	orange 8075	black currant 3416
perlite 4657	leaf	mango 8163
sand 4657	absorption, surfactants, cabbage 1136	reduction, algal extracts, tomato
sawdust 4657	chlorophyll, content, orange 8075	6097
Iris varieties 2244	composition	insect sterilization, Acanthoscelides
Irish Republic, apple, economics 8336	apple 4977	obtectus, bean (Phaseolus) pests
Iron	tomato 7789	2024
absorption	potassium content, orange 9087	mint 8998
fertilizers compared, spinach 5903	leaf analysis	mutation induction 8295
iodine nutrition, grapevine 8553	citrus 1484	apple 5699
leaf	cucumber and gherkin 7683	annual report, UK 903
antirrhinum 3854	standards, fruit trees and plants 2496	fruit russetting 963
sources, orange 3997	sugar cane 412	begonia 7001
surfactants, tomato 4562	manganese content, peach 8457	bulbs, annual report, Netherlands
nutrient solution	manganese imbalance, apple 4203	2219
bicarbonate content	nitrogen content, peach 8457	gladiolus 6172
bean (Phaseolus) 4507	nucleic acids, metabolism, carrot, tissue	grapevine 7545
pea 4507	culture 1307	annual report, India 2668
composition	phosphorus content, peach 8457	mint 6260
bean (Phaseolus) 4507	plant analysis, sugar cane 6437 .	ornamental plants, annual report,
pea 4507	potassium content, peach 8457	Belgium 5386
pH	proteins, content, carrot, tissue culture	rhododendron, annual report,
bean (Phaseolus) 4507	1307	Belgium 8835
pea 4507	sources	rose 5471
orange 3997, 6342–6343	chelates	turnip 8613
soil salinity	antirrhinum 3854	vanilla, annual report, France 754
squash 6912	orange 3119	vegetables, annual report, India
tomato 6912	chrysanthemum 8589	3607
zinc sources, orange 3121	compared, citrus nutrition 1480	plant, height, tomato 4580
amino acids, content, carrot, tissue culture	manganese, deficiency, calcareous soils,	pods, post-harvest, storage life, pea
1307	citrus, nutrition 1480	2074
application	soilless culture, vegetables 2845	pollen viability, apple 3415
foliar	vegetables 8589	post-harvest, ginger 4527
orange 3997	toxicity	seed
surfactants, cabbage 1136	cucumber and gherkin 7683	Clematis spp. 753
methods compared, grapevine 7569	nitrogen nutrition	flower sex, cucumber and gherkin
availability	chrysanthemum 8589	5949
nitrogen nutrition	vegetables 8589	
chrysanthemum 8589	translocation	germination, apple 6531 lettuce 1965
vegetables 8589	antirrhinum 3854	
chlorosis	nutrient solution	plant respiration, bean (<i>Phaseolus</i>) 3711
apple 6563	composition	root formation on cuttings, bean
cherry 8429		
fruit trees and plants, 7319	bean (Phaseolus) 4507	(Phaseolus) 3711
grapevine 7569	pea 4507	treatment
orange 8075	pH, pea 4507	cabbage 5921
	orange 3997	tomato 245–246
phosphorus nutrition, macadamia 6374	zinc content, peach 8457	ionizing
rose 6268	zinc imbalance, mangosteen nutrition	disease control 604
	1667	fruit
content	Irradiation	flavour, lemon 2411
copper nutrition, coffee 393	fast neutrons	post-harvest
flower, peach 6631	mutation induction, saintpaulia 1352	cherry 7434

Subject Index		1035
Irradiation contd.	Irrigation contd.	Irrigation contd.
ionizing contd.	flood contd.	requirements contd.
fruit contd. post-harvest contd.	disease control, celery 2144 nematode control, celery 2144	tea 429, 855 annual report, Sri Lanka 8262
storage life	onion 232	tomato 2118
lemon 2411	soil temperature, banana 4037	for processing 7778
mango 1595 papaw 2461	water composition onion 8638	varietal differences, grapevine 1925 walnut 4160
ripening 604	radish 8638	root
injury	flower, number, melon (cantaloup and	growth
carnation flower 604 review 892	musk) 8664 flower bud	apple 7367 peach 6628
snowdrop 737	drop, rose 3952	saline and fresh water mixed, coconut
tainting, citrus 604	initiation, apple 5717	4052
vegetables 604 - mutation induction 874	flowering, date, almond 2535 frost resistance, sugar cane 9233	saline water coconut 4052
apple, fruit russetting 962	fruit 5255	garlic 4518
snowdrop 737	composition	plant composition, sugar cane 4888
neutrons, mutation induction, tradescantia 5418	grapevine 6737 peach 6629, 7447	salts concentration grapefruit 3122
protons, seed treatment, lettuce 1965	quality, citrus, annual report, Cyprus	tulip 2257
resistance, plant composition, pea 1241	3980	sugar cane 6439
uses, review, horticultural crops 4124 X-rays	set, capsicum 6897 size, apple 6544	tulip 5436 salinity problems
fruit	fruiting, apple 8359	avocado 2376
colour, tomato 8797 ripening, tomato 8797	furrow capsicum, annual report, Cyprus 3604	capsicum 4376, 4537
mutation induction	carrot 7815	cucumber and gherkin 4376 melon (cantaloup and musk) 4376
Kalanchoe spp. 3903	grapevine 1905, 3571	onion 4376
rhododendron, annual report, Belgium 8835	melon (cantaloup and musk) 4448 sugar cane 2468, 8209	sugar cane 407, 6439 report, USA 6382
saintpaulia 1352	annual report, USA 9221	tomato 4376
Streptocarpus spp., annual report,	green manures, cabbage 1165	schedules, compared, peach 1820
UK 3832 tradescantia 5418	Kölle system, pot plants 8849 leaf	shoot composition, peach 7447
seed	composition	growth, apple 6544
flowering, Catharanthus roseus 8010	oil palm, annual report, Nigeria	soil
pollen sterility, <i>Catharanthus roseus</i> 8010	9181 peach 7447	amendments, tomato 7784 chlorine content, melon (cantaloup and
seed number per fruit, Catharanthus	management, mist occurrence, frost,	musk) 4448
roseus 8010	protection 876	compaction
treatment, bean 191 Irrigation	mats paper, chrysanthemum 8859	citrus 3990 grapevine 1106
alkaloids, content, Solanum dulcamara	plastic, chrysanthemum 8859	spray
8040 amino acids, content, Solanum dulcamara	water uptake, types compared 8298 methods 3307	equipment, coffee 6408 grapevine 4344
8040	disease incidence, onion 3763	research, England 868
automatic 3309	pot plants 1687, 2914	sugar cane 407
equipment 3307 greenhouse 4135	sloping sites 8299 methods compared	sprinkler acaricides, application, citrus 3135
grapevine 4344	grapevine 3571	air temperature, banana 4037
pot plants 2914	tomato, annual report, Netherlands	avocado 2376
capillary bedding plants 6495	needs, seasonal, root growth,	bean (<i>Phaseolus</i>) 171 capsicum 6891
chicory 1151	chrysanthemum 2186	carrot 7815
pot plants 6495 chlorinated river water, lettuce, annual	pest incidence, peach 5033 photosynthesis, grapevine 4344	coffee 9165 container-grown plants, annual report,
report, UK 3613	plant anatomy, sisal 9008	UK 3834
citrus, annual report, Australia 1466	plant nutrition	damage
container-grown plants 8943 control, electric, greenhouse 883	almond 2534 bean (<i>Phaseolus</i>) 5975	cucumber and gherkin 3624 grapefruit 3122
cover crops compared, pear 2649	cabbage 5191	economics 3309
disease resistance	peach 6629, 7447	vegetables 1141
capsicum 4538 virus, capsicum 6053	rose 3952 strawberry, annual report, USA 1440,	essential oil, mint 6264 frost, protection, annual report,
drip	5078	Netherlands 5
apple, annual report, UK 8318	proteins, content, bean (<i>Phaseolus</i>) 5258 recommendations	fruit trees and plants 2526 fungicides, application, citrus 3135
avocado 2376 strawberry, annual report, Belgium	apple 1734	grapevine 3571
1060	hop, Czechoslovakia 343	insecticides, application, citrus 3135
vegetables 3624 water composition	onion 232 ornamental plants 1324	melon (cantaloup and musk) 4448 plant composition, mint 6264
onion 8638	tulip 293	soil temperature, banana 4037
radish 8638	requirements	sugar cane, annual report, USA 9221
economics Argentina, sugar cane 6436	banana 9130 coconut 4052	vegetables 116, 3624, 4376 water distribution, apple 6515
Cameroon, banana 4038	determination	sub-surface
hop 3044 tea 856	apple 6544 bean (<i>Phaseolus</i>) 171	grapevine 1905, 3571 sugar cane 2468
equipment	capsicum 4537	annual report, USA 9221
banana 4039	grapevine 6736	water composition
citrus 4039 fertilizers	hop 3043 pot plants 2914	onion 8638 radish 8638
application	sugar cane 6436, 7239	surface, bean (Phaseolus) 171
apple 947, 3394	tea 856	transpiration, diurnal variations, grapevine 6737
bedding plants 6495 chrysanthemum 2185	tomato 1293 disorder incidence, citrus 3990	trickle
container-grown plants, annual	investigation, climatic control chamber	apple 3394, 4189
report, UK 3834	437 lawns and sports turf 8915	annual report, UK 3371 capsicum 4537, 6891
lily 3869 pot plants 1687, 6495	pea, for processing 8715	annual report, Cyprus 3604
flood	peach 7445	fruit trees and plants 1046
air temperature, banana 4037	stone fruits 4160	greenhouse crops 1046

Irrigation contd.	Japan contd.	Kalanchoe spp. contd.
trickle contd.	capsicum, growing 4530 chestnut (<i>Castanea</i>), growing 5023	growth substances <i>contd.</i> shoot, growth, GA 5455
melon (cantaloup and musk) 4448 peach, annual report, Australia 450	Jasmine Jozs	translocation 3902
small fruits 1046 tomato, annual report, Australia 6769	breeding and selection, review, India 8840	irradiation, X-rays, mutation induction 3903
vegetables 1046, 4376	essential oil, extraction 5497	light, flower, petal movements 8928
trickle v. sprinkler, date 809	fluorine, toxicity, plant tolerance 7845	mutants, induction, irradiation, X-rays
vegetables, annual report, Australia 1133	growing, India 8840	3903
water	sulphur dioxide, injury, plant resistance 7845	organic acids
composition boron	Jasmine diseases	biosynthesis, tissue culture 4678 metabolism
fruit trees and plants 5163	Alternaria alternata 336	enzyme activity 8926
ornamental plants 5163	Cercospora spp. 336	photoperiodism 8926
vegetables 5163	Jossinia spp., leaf, anatomy 2483	photoperiodism
chlorine fruit trees and plants 5163	Juglans manschurica, as a rootstock, walnut 8480	enzyme activity, organic acids
ornamental plants 5163	J. niger, as a rootstock, walnut 8480	metabolism 8926
vegetables 5163	J. regia, as a rootstock, walnut 8480	enzymes, content 7933 flower bud, initiation 3902
sodium	Juniper	propagation
fruit trees and plants 5163 ornamental plants 5163	annual report, Netherlands 4604 chromosome number 316	cuttings
vegetables 5163	growing	rooting
soil salinity, sugar cane, annual	in containers	inhibition
report, Australia 9219	media 4689 weed control 4614, 8853	copper 8929 tap water 8929
conductivity, measurement, equipment 7286	herbicides	plantlets, terminology 8927
consumption, onion 6884	application, mulches 8853	root, growth, growth substances 5455
weed control, lawns and sports turf 738	injury, dichlobenil 8853	temperature, flower bud, initiation 3902
weed incidence, lawns and sports turf	weed control 4614	Kale chlorophyll, metabolism, growth
8915 well-point system, coconut 4852	Juniper diseases, Phomopsis juniperovora 5463	substances 151
Isariopsis spp., control, bean (Phaseolus)	Juniper propagation	nucleic acids, metabolism, growth
diseases 8690	cuttings, media 8844	substances 151
Isaris sinclairii, fungal parasite, Mogannia	grafting, temperature, annual report, USA 3835	pollination, mechanism 152 proteins, metabolism, growth substances
hebes, sugar cane 9257 Isatis tinctoria, glucobrassicins, biosynthesis	Juniperus spp.	151
6255	diseases, Coniothyrium juniperi 1388	water potential, leaf 5930
Israel	dormancy, phosphorus, absorption 3909	weed control, annual report, German
capsicum, growing 4530	phosphorus, absorption, dormancy 3909 potting composts, bark 2276	Federal Republic 8579 Kale diseases
pistachio, growing 5058 Italy	propagation 2270	Plasmodiophora brassicae, varietal
almond, production and trade 3364-3365	cuttings	resistance 7640
Boronia spp., growing 5479	annual report, Irish Republic 2909	virus, annual report, UK 5153
chestnut (<i>Castanea</i>), growing 5023 essential oil plants 6244	mist 5462 under plastic 5462	Kale growth substances chlorophyll, metabolism 151
herbs 6244	treatment, growth substances 5462	nucleic acids, metabolism 151
medicinal plants 6244	Jurinea macrocephala, growing, for incense	Kale growth substances, proteins,
nectarine varieties, review 6625	6322	metabolism 151
peach varieties, review 6625 spice plants 6244	Jussieua spp., taxonomy 266 Juvenility	Kale varieties, disease resistance, Plasmodiophora brassicae 7640
tomato, growing, for processing 6901	growth substances, <i>Ipomoea</i> spp. 6151	Kalmia angustifolia, pigments, genetics 322
Itea ilicifolia, carbohydrates, metabolism	ivy 6217	K. latifolia 7040
7056	leaf removal, cauliflower and broccoli	propagation
ground cover plants 710	7644 light, cauliflower and broccoli 7644	cuttings, source plants, age 7057 grafting 7057
juvenility 6217	Malus spp. 4725	seed 7057
light, intensity, juvenility 6217	review, trees and shrubs 5689	K. spp., enzyme activity, determination
photosynthesis	temperature, cauliflower and broccoli 7644	1063 Kerria spp., growth substances, retardants,
seasonal variations 3913 temperature 3913	Kakothrips robustus, vectors, Botrytis fabae,	chlormequat 6212
saponins, content, disease resistance 5464	bean (Vicia) pests 8708	Kniphofia spp., tuliposides 8908
temperature, juvenility 6217	Kalanchoe blossfeldiana, growth substances,	Kohl-rabi
weed control 710 Ivy diseases, Pestalotia microspora, host-	endogenous, determination 7026 K. pinnata, phenolic compounds 7934	amino acids, biosynthesis, irradiation, gamma rays 5931
pathogen relationships 5464	K. spp.	annual report, Austria 114
Ivy growth substances	carbon dioxide	breeding and selection, annual report,
endogenous, shoot 3006 juvenility	evolution 8920 fixation, darkness 4674	Italy 6771
abscisic acid 6217	copper, toxicity, cuttings, rooting	carbon dioxide, supplementary, seedling raising 2880
aminozide 6217	inhibition 8929	enzyme activity, respiration 6799
GA 6217	darkness, carbon dioxide, fixation 4674	growing
Ixeuticus spp., predator on, Aphytis melinus, citrus 1494	diseases, Sphaerotheca humuli 3904 enzyme activity, photoperiodism, organic	under glass 5922 in greenhouses, plastic 5923
Ixia, forcing 6165	acids metabolism 8926	as an intercrop, Strelitzia spp. 8879
Ixia seed	enzymes, leaf, photoperiodism 7933	growth studies 7639
composition 2943 oil 2943	flower	harvesting, once-over 5923
Ixora spp., annual report, USA 1441, 6129	bud initiation 3902 petal, movements, light 8928	herbicides application, pelleted seed, annual report,
Jacaranda spp.	flowering, inhibition, growth substances	German Federal Republic 7598
growing, in containers, root, growth	4677	plant, thinning 7648
control 7847 planting	growth substances endogenous	Kohl-rabi herbicides
root pruning 3007	biosynthesis 3902	tolerance
time 3007	_ leaf 4677	Ramrod 3662
quinones 6239	flowering	Semeron 3662
seedling, nursery treatment 3007 Jackfruit, fruit	inhibition abscisic acid 4677	Kohl-rabi irradiation, gamma rays, amino acids,
aroma 7171	GA 4677	biosynthesis 5931
set, branch age 433	xanthoxin 4677	light, supplementary, seedling raising
Janus piri, pear pests 1029 Japan	growth inhibition, cycloheximide 5455	planting specing 1980 5022
apple, growing 5709	injury, TIBA 2976 root, growth, IAA 5455	planting, spacing 1980, 5923 pollen, size, viability 2763
11		,,,

Subject Index		103
Kohl-rabi contd.	Lannea grandis, as supports, grapevine	Lawns and sports turf contd.
respiration	6744	diseases
enzyme activity 6799	Lansium domesticum, fruit, aroma 7171	Cercospora fusimaculans, on
temperature 6799 seedling	Lantana camara lactones 3079	Stenotaphrum secondatum, control 7023
raising	terpenes 3079	Corticium spp., control 8918
carbon dioxide, supplementary 2880	L. indica, essential oil, fungicidal properties	Cristella confinis 7928
light, supplementary 2880	6256	decline, on Stenotaphrum secundatum
soilless culture, nutrient solution, mineral	L. spp.	2970
fertilizers 6075 temperature 5922	essential oil, composition 1399 essential oil content 1399	downy mildew, on Stenotaphrum secundatum 2972
respiration 6799	plant composition 1399	Fusariam nivale 1371, 2971, 6195
weed control 3662, 7648	propagation, cuttings 2168	control 8918
annual report, German Federal Republic 8579	Larkspur flower, cut, preservatives 6161	F. roseum, -nematode complex 6196
Kohl-rabi growth substances	Laserpitium hispidum, essential oil, content	Marasmius oreades, incidence 7929 Ophiobolus graminis 4671
endogenous, tuber 5197	7983 Lasiopus cilipes, cacao pests 3185	control 8918
residues, plant, chlormequat 5198	Laspeyresia caryana	Puccinia coronata, on Festuca spp.
Kohl-rabi nutrition, general, varietal responses 7639	biological control, pecan pests, annual	5449 P. stenotaphri, on Stenotaphrum
Kohl-rabi seed	report, USA 451	secundatum 6197
sowing	pecan pests, annual report, USA 4945 L. leucostoma, tea pests, annual report,	resistance, review 6194
dates 5922 spacing 7648	India 1657	Sclerotinia borealis 1371, 6195 S. homoeocarpa, control 8918
Kohl-rabi soil, moisture 7639	L. nigricana, pea pests, annual report, UK	Spermopora subulata, annual report,
Kohl-rabi tuber	3611	Canada 3882
ascorbic acid, content 6799 composition, cytokins 5197	L. woeberiana, apricot pests 63	Typhula inoarnata 6195
sugars, content 6799	Latex, production, growth substances, papaw 7216	T. ishikariensis 6195 Ustilago striiformis, control 5450
Kohl-rabi varieties, tetraploid and diploid	Lathrolestes caudatus, parasite of, Ardis	establishment 3889
compared 4422	brunniventris, rose, annual report,	alpine sites 3887
Korolkowia spp., growing 5440 Kumquat fruit, pectins, content 3160	Netherlands 6961	car parks 7919 Finland 7020
Kumquat pests, mites, biological control	Latitude, plant responses 5678	roadside 3886, 3888
366	Latonia arpatichaina ornamental plants, pests 1329	steep slopes 3887
Labiatae stomata	vegetables, pests 1329	Yugoslavia 2966 fibre mats installed at various depths
development 5494	Laurus nobilis	8912
structure 5494	herbicides	fungicides, interaction, nematicides 226
Labour requirements	toxicity dicamba 2495	grass composition, sulphur 6193
forcing, tulip 7016 greenhouse, vegetables, annual report,	picloram 2495	grasses Agrostis spp., variety trials 7021, 791
Netherlands 1132	weed control 2495	A. tenuis 7919
growing 1330	Lavandula spp.	mowing 8916
carnations 1330 flowers, annual report, Netherlands	essential oil, composition 7987 terpenes 7966	nitrogen nutrition 8916 breeding and selection
1314	Lavender	Austria 7018
greenhouse crops 5156–5157	essential oil 764, 6258	disease resistance 6195
harvesting asparagus fern 2268	composition, varietal differences 7986	Finland 7019 German Federal Republic 5441
peach 6627	content	Poa spp. 1370
sugar cane 5656	nectar removal by bees 5899 varietal differences 7986	Sweden 3884
nurseries, grapevine 553	terpenoids 2326	Cynodon dactylon 7915 Cynosurus spp., variety trials 7021
planting, asparagus fern 2268 pruning and training, peach 6627	variety trials 4740	disease resistance, review 6194
raspberry 7491	terpenes 7966	Festuca spp. 7919
red currant 7491	Lavender and lavandin breeding and selection, essential oil 8996	mowing 8916
Laburnum amino acids 8001	essential oil	nitrogen nutrition 8916 variety trials 7021, 7918
pterocarpanoids 6233	content, breeding and selection 8996	weed incidence 8915
taxonomy, chemotaxonomy 6233	quality, breeding and selection 8996	Finland, review 6191
Laburnum growth substances, retardants, chlormequat 6212	Lavender diseases alfalfa mosaic 3944	Lolium perenne 7915, 7917 L. spp.
Laelia spp., taxonomy, chemotaxonomy	yellows, mycoplasma, structure 762	variety trials 7021
8934	Lavender growth substances	weed incidence 8915
Laeliocattleya spp., tissue culture, leaf, media 6207	endogenous leaf 2323	Netherlands, review 5442 Phleum spp., weed incidence 8915
Lagenaria leucantha, flower, sex 8665	shoot 2323	Poa pratensis 5443, 7919
L. siceraria	Lavender propagation, cuttings, rooting	mowing 8916
flower, biology 3691	capacity, growth substances, endogenous 2323	nitrogen nutrition 8916
as a rootstock, disease incidence, watermelon 1999	Lavender soil, types, essential oil production	Poa spp. 7915, 7917 variety trials 7021
L. spp.	764	weed incidence 8915
cucurbitacin, content, pest resistance	Lavender varieties	Stenotaphrum dimidiatum, tropics 30
diseases	comparative trials 7986 essential oil, content 4740	variety trials, Norway 3885 growth substances
mosaic virus 1189	Lawns and sports turf	retardants
Sphaerotheca humuli 6823	aeration 2968	3-carboxy-2-pyridones 3334
pests, Aulacophora foveicollis, varietal resistance 1194	annual report Austria 265	chlorflurecol 2263 chlormequat 2263
seedling, emergence, soil temperature	Canada 8836	MH 2263
. 4447	USA 1315, 1441, 2152, 3836, 6129,	tillering
soil, temperature, seedling emergence	8834, 8839	chlormequat 2263
4447 Lagerstroemia spp., leaf, organic acids,	climate, microclimate 3296 cold	chlormequat 2263 herbicides
content 1402	resistance 304	absorption, endothall 5445
Lamium amplexicaule, as weeds, strawberry	nitrogen nutrition 304	injury, pronamide 7922
8509 Landscaping	potassium nutrition 3895	metabolism, endothall 5445 translocation, endothall 5445
olive 3164	iron nutrition 3894	irrigation
ornamental plants 2908	nitrogen nutrition 304	requirements 8915
ornamental trees and shrubs 8940 trees and shrubs 2908	compressibility, determination 2174, 4670	weed control 738 weed incidence 8915
11003 and 3111 a03 2700	1070	Troop Inolating 0717

Lawns and sports turi coma.	Lawis and sports turi conta.	Dear comu.
management	winter hardiness 3895	senescence contd.
Finland 7020	Lead	growth substances contd.
France 7022	absorption, eggplant 2851	kinetin, eggplant 671
Yugoslavia 7915	contamination, cabbage, annual report,	MH, tomato 1297
moss control 7921	German Federal Republic 7599	light, duration, tomato 1297
mowing	content	nitrogen absorption 2571
height 7924	fruit, air pollution, grapevine 5837	nucleic acids, bean (Phaseolus) 2879,
		5244
machines compared, grass population	roadside plants, trees and shrubs 440	
8916	determination	soil salinity
weed control 738	apple 4389	bean (Phaseolus) 2879, 5244
nematicides, interaction, fungicides 2266	atomic absorption spectrophotometry	
		mesembryanthemum 2941
nutrition	beetroot 6784	shape, recording technique, numerical
fertilizers 7022	cabbage 6784	872
application, top-dressing 2264	chicory 6784	
'application, top dressing 2201		size, measurement, statistical technique,
iron, grass colour 3894	lettuce 6784	legumes 7
nitrogen	fruit 4389	wax, growth substances, absorption, pear
application, time, cold, resistance	grapevine 1128	
304	vegetables 4389	5054
		Lecanium deltae, parasites, Hymenoptera,
disease incidence 7023, 8918	leaf analysis, standards, fruit trees and	citrus pests 6351
grass colour 304	plants 2496 •	
grass population 8916	nutrition	Lecythidaceae
sources, compared 6193	bean (Phaseolus) 173	growing, tropical America 5598
		nomenclature 5598
NPK 7926	tomato 173	
soil type 7927	residues	uses 5598 .
potassium	apple, annual report, German Federal	Ledum palustre, as medicinal plants 5538
	Republic 6506	Leek
cold, resistance 3895		
sources, compared 6193	fruit 4936	alkanes, biosynthesis 2829
overseeding 2264	vegetables 4936	annual report
	toxicity, vegetables, tissue culture 121	
pests 7030		Netherlands 8581
Amphimallon majalis 7930	translocation, eggplant 2851	UK 3613
Criconemoides ornatus 2265	Leaf	bolting 4519
Helicotylenchus pseudorobustus 2265	abscission	
		photoperiodism 5300
Herpetogramma licarsisalis 5451	anatomy, olive 5592	temperature 5300
Hoplolaimus galeatus 2265	ethylene, bean (<i>Phaseolus</i>) 2035	cadmium, determination 4389
nematodes 4672	abscission layer, enzyme activity, bean	
varietal resistance 4672	(Phaseolus) 2035	growing
		frames 2737
Oscinella frit 2973	age, cell injury resistance, Zebrina pendula	
Spodoptera mauritia 5451	5457	media, compared 7605
Tylenchorhynchus claytoni 2265	amino acids	peat 7605
		use of plastic materials 2738
Tylenchorhynchus dubius 2266, 6198	content	
disease relationships 6196	disease incidence, orange 2393	harvesting
Xiphinema americanum 2265	soil, oxygen concentration, orange	mechanical, annual report, Netherlands
plants, Trifolium spp., Norway 3885	2393	1132
quality, evaluation 3891	analysis	time of, planting, time 4519
re-seeding 3891	atomic absorption spectroscopy, pecan	lead, determination 4389
renovation 3891	1844	photoperiodism 5300
research, Finland 7019	fruit trees and plants, annual report,	planting
retardants, growth substances 2263	Belgium 902	v. direct sown 6873
rolling 7923	methods, sugar cane nutrition 413	time 4519
root, sampling 3883	methods compared 3302	proteins, determination, electrophoresis
seed	sample storage 3173	4384
mixtures 2967	sampling	stomata, guard cells, cytology 8736
car parks 7919	age, sugar cane 412	storage 229
orchard tracks 3890	apple 1742	temperature 5300
roadside 3886	position, oil palm 8167	transplating v. direct sown 1246
production 3896	strawberry 6693	weed control 661, 5680, 6024, 6028
	time of, sugar cane 412	annual report
sowing		Common Forder Development Octo
depth 5447	walnut 99	German Federal Republic 8579
methods 3886-3887	symposium 2489	UK 1936
car parks 7919	anatomy, toxins, fusicoccin, bean	review 5306
tillering 6192	(Phaseolus) 4487	winter hardiness 4519
soil	area	Leek bulb
amendments 2969, 7022	measurement	development
conservation 2969	grapevine 4349	photoperiodism 5300
	oil palm 7207	
heating 7920		temperature 5300
systems 3889	photoelectric scanner 5673	Leek diseases
preparation 2262	photosynthesis, productivity, pear	Alternaria porri 661
structure 2969	5053	Fusarium spp. 661
thatch	press-frame 8288	Leptotrichila porri 661
development 2174, 4670, 8917	rubber 3251	Peronospora spp. 661
removal 2264	statistical techniques, mango 1594	Phytophthora porri 661
methods compared 7925	light, reflection, diseases, annual report,	Puccinia allii 661
tillering 5447	USA 599	Urocystis cepulae 661
growth substances 2263	maturity, grapefruit, annual report, USA	Leek flower
seed sowing, methods 6192	790	stem
tree root competition 303	movements, phytochrome, Albizzia spp.	development
turf, rooting 301–302	5265	photoperiodism 5300
weed control 738, 1681, 3892, 4924,	optical properties, measurement	temperature 5300
5444–5446, 7922, 8913–8914	techniques 6485	Leek nutrition, nitrogen, sources, compared
Agropyron repens 5443	removal	119
annual report	chemical	Leek pests
Canada 2154		
	brussels sprouts, annual report, Irish	Acrolepia assectella 662
German Federal Republic 8837	Republic 1939	Dizygomyza cepae 662
Dactylis glomerata 5443	hop 3958	Hylemya antiqua 662
Festuca elatior 5443	sugars, metabolism, apple 3414	
		Meloidogyne spp. 662
irrigation 738	senescence 4940	Thrips tabaci 662
mowing 738	amino acids, content, tomato 1297	Leek plant, composition, organic
mowing height 7924	ascorbic acid, treatment, eggplant 671	compounds, nitrogen, sources 119
Pennisetum clandestinum 739		
	growth substances 1978, 4940	Leek root
weeds		
	GA	growth
Poa annua 7916		
	GA eggplant 671 tomato 1297	photoperiodism 5300 temperature 5300

Subject Index		10
Leek seed	Lemon contd.	Lemon fruit contd.
germination 2022	mutagens, disease resistance,	flavour, irradiation, ionizing 2411
pelleted seed 3623 temperature 5299	Deuterophoma tracheiphila 8060	hydrocarbons, varietal differences 3156
production, annual report, Belgium 4363	nematicides, application, methods compared, Nemacur 3133	injury, resistance 9103 irradiation
sowing	nitrates, content, NPK nutrition 2384	gamma rays, mechanical injury
dates 4519	nitrogen	resistance 9103
depth 5299 direct v. transplanting 6873	content disease resistance 3131	ionizing
treatment, pelleted 3623	frost resistance 3131	disease control 604 injury, tainting 604
Leek soil, moisture, 696	organic acids 6783	post-harvest, storage life 2411
Leek varieties annual report, UK 1937, 5149	content, fruit, Phytophthora citrophthora 6347	loosening, growth substances, ethephon 2407
comparative trials 3758	photosynthesis 6353	maturity, colour, juice content 3159
Legumes	plant nutrition 9100	pigments, metabolism 4005
anthocyanins, content 8705 as a cover crop, rubber 8178	phytoncides 3129 planting	growth substances, GA 1502
ground cover plants, rubber 4881	high density 3104	propylene treatment 383
leaf, size, measurement, statistical	spacing 3104	wax coatings, mechanical injury resistan
technique 7 mulching, plastic 4378	products and by-products, juice, characterisation, amino acids,	9103 Lemon growth substances
pigments, content 8705	composition 1508	flower bud
soil, cultivation 4378	proteins, content, varietal differences	initiation 7150
fruit species, American tropics 9122	3131 pruning and training	chlormequat 7150 GA 7150
growing, American tropics 9122	mechanical 5554	fruit
nomenclature 9122	methods compared 3109, 3992, 5554	colour, ethephon 2407
value 9122 Lemaireocereus spp., edible fruits 822	protected cultivation 3110 respiration	loosening, ethephon 2407 ripening, GA 1502
Lemon	ethylene, production 383	Lemon leaf
amides, content, leaf, Deuterophoma	fruit, Phytophthora citrophthora 3153	ascorbic acid 3158
tracheiphila 8061 amino acids	ringing, photosynthesis 6353 shade, pruning and training 3992	nutrients content
content	storage	seasonal variations 3114
leaf 8061	dips dipage control	varietal variations 3114
Deuterophoma tracheiphila 8061 annual report	disease control **Diplodia spp. 6363***	pigments 3139 content, plant nutrition 3112
Australia 4782	Geotrichum spp. 6363	Lemon nutrition
Cyprus 3980 USA 8051	Phomonsis spp. 6363	boron 1483
ascorbic acid	Phomopsis spp. 6363 wax coatings, rot control 6363	cold, resistance 1483 flowering, autumn 1483
content	tissue culture, embryo, media 3142	calcium, photosynthesis 9100
fruit, <i>Phytophthora citrophthora</i> 6347	transport containers, compared 1507	copper 1483 FYM, photosynthesis 9100
nitrogen nutrition 3113	pre-cooling, temperature, container-	general
potassium 3113	4016	chlorophyll, content 9100
breeding and selection disease resistance, Deuterophoma	water relations, flower bud, initiation 7150	leaf analysis 3114 iron, disease resistance 364
tracheiphila 7126, 7144, 9078	weed control 7131	manganese 1483
interspecific hybridization 5545	Convolvulus spp. 7131	cold, resistance 1483
Italy 792–793 carbohydrates	wind, damage, pruning and training 3992	flowering, autumn 1483 molybdenum 1483
biosynthesis, tissue culture 1496	Lemon diseases	nitrogen
content	Deuterophoma tracheiphila 365	leaf analysis 2384
disease resistance 3131 frost resistance 3131	fungicides, application, methods compared 3130	photosynthesis 9100 NPK
fruit 9108	host amino acids, content 8061	ascorbic acid, content 3113
leaf 9108	iron, nutrition 364	leaf, pigments 3112 photosynthesis 9100
chlorophyll, content, plant nutrition 9100	phytoncides 3129 resistance 8060	phosphorus, leaf, composition 2384
cold, resistance, plant nutrition 1483	breeding and selection 7126, 7144,	potassium, leaf, composition 2384
economics 1502 essential oil	9078 toxins, chlorophyll, biosynthesis 4801	sewage sludge, photosynthesis 9100 zinc 1483
content, peel, varietal differences 4022	varietal resistance 3131	Lemon pests
volatile constituents 2412	Diplodia spp., storage dips 6363	Aonidiella aurantii, resistance 3134
flowering, autumn, nutrition 1483 frost	Geotrichum candidum, irradiation 2411 G. spp., storage dips 6363	mites, biological control 366 Pratylenchus coffeae 3133
protection	Penicillium digitatum, storage dips 6363	Lemon rootstocks
covers; pruning and training 3110	Phomopsis spp., storage dips 6363	Citrus junos 4788 C. macrophylla 8063
temperature data 6335 resistance 3101	Phytophthora citrophthora fruit composition 6347	comparative trials, USA 8063
carbohydrates, content 3131	respiration, fruit 3153	Poncirus trifoliata 3101
nitrogen, content 3131 polyploids 7129	rumple 8074 tatterleaf-citrange stunt complex, control,	-scion relationships frost resistance 3101
fungicides	heat treatment 6328	fruit, composition 4788
application	Xanthomonas citri, pathogen survival	Lemon, rough
adjuvants 3130 methods compared 3130	5561 Lemon disorders	as an interstock, grapefruit 5559 as a rootstock
residues	rumple 3998	citrus 3988, 4795
determination	storage spot 4812	disease resistance, grapefruit 9092
benomyl 6501 thiabendazole 6501	Lemon flower bud initiation	grapefruit 5559 orange 795
fruit ·	growth substances 7150	Lemon varieties
biphenyl 9107	water relations 7150	disease resistance, Deuterophoma
phenylphenol 9107 growing	pigments, content 8088 Lemon fruit	tracheiphila 3131, 9091 essential oil, production 4022
Mozambique 360	ascorbic acid 3158	frost, resistance, leaf, composition 3131
protected cultivation 6336	colour, growth substances, ethephon 2407	fruit, hydrocarbons 3156
review 792 trenches 6336	composition 5575	leaf, composition, seasonal variations 3114
harvesting, systems, economics 2408	rootstocks 4788	register, USA 4156
hybrids, interspecific 5545 lactones 6367	coumarins, content 8446 flavonoids 8102	review 792 Lentinus edodes, edible fungi 6122, 6958

1040		Horticultural Abstracts 1973 Vol. 43
Lepidosaphes beckii	Lettuce contd.	Lettuce contd.
orange pests 7147 resistance, NPK nutrition, orange pests	growing contd. for harvesting throughout the year	seedling contd. growth contd.
2397	1974	inhibition <i>contd.</i> growth substances, asparagusic acid
Lepidosaphes pallida, population studies, mango pests 9179–9180	peat nutrition	4517
L. ulmi, apple pests, annual report,	minor elements 4382	raising, light, artificial 8604
Netherlands 5698	molybdenum 7628	transport, containers, plastic 4375
Lepista nuda, edible fungi 6958	peat blocks 7626 under plastic 1686, 2499, 5910	soilless culture 4379 annual report, France 3605
Leptochloa spp., as weeds, sugar cane 405 Leptospermum petersonii, essential oil,	weed control 7627	stomata, development 4402
Australia 4737	protected cultivation 2159, 2159, 5159	storage
Leptosphaeria coniothyrium, raspberry	tunnels 1261, 1686, 2753 harvesting dates 1156	controlled atmosphere carbon dioxide injury 6790
diseases 2687	growth studies, temperature 8610	leaf, senescence 1978
L. spp., spore numbers, grapevine diseases 5858	harvesting	temperature, plant, weight loss 7636
L. taiwanensis	once-over 5923	sugars content, seedling, growth substances
resistance, sugar cane diseases 4087	time of, sowing, dates, autumn production, Netherlands 1966	6789
varietal resistance, sugar cane diseases 4083	heat treatment, virus control 7631	degradation, storage 7636
Leptothrips mali, predator on, Panonychus	herbicides application, irrigation 6905	temperature growth 1973
ulmi, apple 4213	injury	growth studies 8610
Leptotrichila porri, leek diseases 661	dacthal 8605	interaction
Leskia aurea, biological control of, Aegeria	dichlorprop 1967 2,4-D 1967	light, intensity 1973 photoperiodism 1975
myopaeformis 3409 Lettuce	MCPA 1967	plant, development 8611
amino acids, proteins, content, water	mecoprop 1967	tissue culture 121
deficiency 3628	2,3,6-TBA 1967	cotyledons 139
annual report Austria 114	2,4,5-T 1967 residues	pith, xylem formation, growth substances 7635
Belgium 1131	application, methods, pyrazon,	transpiration 1972
German Federal Republic 7597–7598,	dalapon, RH 315, DCPA,	evapo-, measurement 4413
7600, 8579 Irish Republic 1939	nitralin, trifluralin 1949 diquat 6905	transport 1979 containers, carbon dioxide concentration
Netherlands 1132, 1135, 5151, 8581	paraquat 6905	2756
New Zealand 5152	insecticides	water relations 1972
UK 1934, 1937, 3613, 4366, 5149, 5884, 6774, 8584	application as emulsifiable concentrates,	plant, proteins, amino acids, content 3628
USA 3618, 4368, 7601, 8585	chlorpyriphos 2506	weed control 603, 3615, 4411, 5680,
ascorbic acid	as granules, chlorpyriphos 2506	7627, 8605, 8817
content latitude 5678	residues arsenic 3329	annual report, UK 5885 review 5182
molybdenum nutrition 7630	determination, chlorpyrifos 4142	weeds, alternative hosts, virus diseases
degradation, storage 7636	plant	7631
bolting, growth substances 5914 breeding and selection	chloropyrifos 2506 determination 3330	winter hardiness, sugars, content 7662 Lettuce diseases
annual report, USA 3616	lead arsenate 1951 :	beet western yellows 1969, 4412
disease resistance, Sclerotinia	irrigation, sprinkler 116	bidens mottle 5912
sclerotiorum 4403 F ₁ hybrids, annual report, USA 3617	lead determination, atomic absorption	Botrytis cinerea 7633 calcium nutrition 865
carbon dioxide	spectrophotometry 6784	B. spp.
injury 5915, 6782	residues 4936	control 7626
carbon monoxide 1157 oxygen 1157	light artificial, seedling raising 8604	fungicides, application, method, quintozene 1970
supplementary 3640	intensity 1975	Bremia lactucae
supplementary from diesel exhaust,	growth 1973	assessment methods 5165
injury 3625 carotene	interaction, temperature 1973 leaf, initiation 1973	varietal resistance 1962, 1964, 4404,
content, molybdenum nutrition 7630	plant, weight 8611	6787
degradation, storage 7636	supplementary 1975	Erwinia carotovora 5915
chlorophyll, content, seedling, growth substances 6789	manganese, content, plant, soil steaming 8606	internal rib necrosis 4412 mosaic 4412, 5912
copper, toxicity 2754	mulching, plastic 2753, 4377	necrotic yellows 7631
enzyme activity, plant, copper, toxicity	net assimilation rate 3649	alternative hosts, Sonchus oleraceus
2754 ethylene, seed, germination 6788	nitrite, toxicity 5893 nucleic acids, content, seedling, growth	7631 report, Australia 3602
fluoroacetate, metabolism 3650	substances 6789	vectors, Hyperomyzus lactucae 7631
fungicides diablazalina 7633	nutrient absorption	Pseudomonas marginalis 5916
persistence, dichlozoline 7633 residues	major element 5911 minor elements 5911	Rhizoctonia spp., fungicides, application, method, quintozene 1970
determination	nutritional value 4388	Sclerotinia minor 135, 5184, 7633
benomyl 7609	amino acids 3628	S. sclerotiorum 7633
quintozene 3331 thiophanate 7610	ozone, injury, varietal resistance 5178 packing 1979	varietal resistance 4403 S. spp., incidence 5910
plant, thiram 7634	photoperiodism, interaction, temperature	virus, annual report, Netherlands 6772
growing frames 2737	1975	Xanthomonas vitians 8608
frames 2737 in frames, plastic 4410	pigments, content, seedling, growth substances 6789	varietal resistance 8608 Lettuce disorders 5915
under glass 1139, 1686, 1974	plant, anatomy, epidermis 4402	brown stain, carbon dioxide, injury 1157
artificial illumination 877	planting	leaf margin browning, annual report,
economics 5156–5157 for harvesting throughout the year	methods compared 2752 spacing 134, 5923	German Federal Republic 7599 marginal leaf scorch, resistance, soil
1961	net assimilation rate 3649	sterilization 8606
labour requirements 5156–5157	proteins	tipburn, resistance, soil sterilization 8606
under plastic, annual report, UK 6773	biosynthesis, growth substances 137 content, seedling, growth substances	Lettuce growth substances absorption, abscisic acid 8609
winter harvesting 3640	6789	bolting, GA 5914
in greenhouses	seedling	chlorophyll, content, GA 6789
glass, plastic 2738 light 8611	emergence, soil, compaction 4409 growth	chlorosis, GA 6789 growth inhibition, chloramphenicol 8607
plastic 5923	inhibition	injury
temperature 8611	Coronilla varia seed leachate 7625	2,4-D 609

Subject Index		1041
ettuce growth substances contd.	Lettuce seed contd.	Lettuce varieties contd.
injury contd.	germination contd.	Selma 6787
GA 5914 - interaction, potassium nutrition 8607	seed, size 3645 soil, moisture 4409	storage, controlled atmosphere, carbon
leaf	sources	dioxide injury 6790 winter harvesting, comparative trials
senescence	temperature 3646	2751
GA 1978	water relations 3646	Leucaena spp.
kinin 1978 metabolism, abscisic acid 8609	temperature 3645–3646, 5185 ethylene 6788	ground cover plants, coffee 7190 as weeds, vegetables 1946
plant	ethylene production 1977	Leucas aspera, essential oil, fungicidal
composition, GA 6789	water relations 3646	properties 6256
weight	production, growth substances 5914	Leucoplema spp., coffee pests, annual report,
2,4-D 609 GA 5914	sorting, air flow 4373 sowing	Nigeria 4035
IAA 609	dates	Leucoptera meyricki, coffee pests 1583 L. spp.
responses, histology 138	autumn production, Netherlands	coffee pests 6407
seed, production, GA 5914 seedling, growth, inhibition, asparagusic	1966 USSR 4407	annual report, East African Community
acid 4517	depth, germination 3645	5617
xylem	mechanical, equipment 6939	Leucospermum spp., taxonomy 1397 Leucostoma cincta
formation cytokinin 7635	peat 7606 spacing 5908	incidence, pruning and training, peach
IAA 7635	treatment	diseases 8455
ettuce leaf	ethylene 6788	peach diseases 80
senescence, growth substances 1978	carbon dioxide presence 1154	L. persoonii, peach diseases 80
sugars, content, seasonal variations 7662 ettuce nutrition	fungicides 3622 gamma rays, injury 1965	Leucothoe grayana, terpenoids 7999 L. spp.
major elements, absorption 5911	growth substances	enzyme activity, determination 1063
minor elements 608	CCC 137	enzymes, extraction 8949
absorption 5911 molybdenum	ethephon 3647 IAA 3647	Leveillula spp., mint diseases 336
deficiency, growing in peat 4382, 7628	kinetin 3647	L. taurica
varietal responses 7630	NAA 3647	control, capsicum diseases 6042 okra diseases 160
nitrogen 1950, 3648 ammoniacal concentration 1968	light	relative humidity, tomato diseases 8781
availability 117	far-red 136, 1976 red 136, 1976, 6788	temperature, tomato diseases 8781
NPK 1143	nutrients, potassium 137	Levisticum spp.
phosphorus 3648	pelleted 3623	ascorbic acid, content, leaf 4728 carotene, content, leaf 4728
availability 120 leaf analysis 5183	annual report Canada 2734	Libanotis condensata, coumarins 6283
net assimilation rate 3649	UK 5153	Liberia, rubber, growing 8184
soil adsorption 5183	protons, injury 1965	Libocedrus spp.
soil analysis 7629	Lettuce soil amendments	dormancy, phosphorus, absorption 3909
potassium 3648, 8607 annual report, USA 1935	polystyrene, nutrient availability 117	phosphorus, absorption, dormancy 3909 Licania platypus, fruit, description 9282
interaction, growth substances 8607	urea formaldehyde foam resins, nutrient	Lichens, medicinal properties, survey 775
zinc, tissue culture 121	availability 117	Light (see also Dark; Photoperiodism)
ettuce pests Agrotis spp. 1971	compaction 4409 fumigation	absorption leaf
Autographa californica 1158	residues	measurement techniques 6485
Hyperomyzus lactucae, vectors, necrotic	plant, methyl bromide 2755	squash, annual report, USA 600
yellows 7631	soil, methyl bromide 2755 pH 1968	pruning and training, methods compared, apple 4963
Meloidogyne hapla 2761 Myzus persicae 1158	steaming, temperature 8606	artificial 4903
virus vectors, beet western yellows	sterilization	book 8307
1969	steam	chrysanthemum 1334
Pemphigus bursarius 1159 resistance 3643	disorder resistance 8606 plant quality 8606	cucumber and gherkin, annual report, Netherlands 1135
varietal resistance 1159	plant shape 8606	cyclic and continuous compared,
slugs 1971	Lettuce varieties 134	carnation 2181
Trichoplusia ni, biological control 5913 Lettuce plant	Anita 6787 annual report	equipment 887 greenhouse crops 877
composition, analysis methods tissue	Canada 1944	ornamental plants 8841
preparation 5170	UK 1936	flowering
development 4414 light, intensity 8611	Brazil 1963 comparative trials	ornamental plants 8841 rose 5477
temperature 8611	annual report	fruit, ripening, banana 4836
quality, soil sterilization 8606	Canada 5883	seedling raising, lettuce 8604
shape, soil sterilization 8606	UK 8583 German Democratic Republic 1964	sources, laser-emitted, flowering, chrysanthemum, report, Australia
weight, growth substances 5914 Lettuce root, growth 1147	German Federal Republic 4404 4405	3831
ettuce seed	Netherlands 6787	sources compared
ethylene, content 6788	disease incidence, <i>Sclerotinia sclerotiorum</i> 4403	bulb, development, onion 3767 growing rooms, grapevine 5139
germination ethylene 6788	disease resistance	blue
ethylene production 1977	Bremia lactucae 1962, 6787	carbon, metabolism 1673
inhibition 1155	internal rib necrosis 4412	enzyme activity, bean (<i>Vicia</i>) 8712
copper 2754 darkness 5181	Xanthomonas vitians 8608 Domineer 4406	leaf growth, pea 3738
growth substances 3644, 3647	Fairton 5179	movements, Albizzia spp. 5265
light	France 1153	pigment stability, cucumber and gherkin
blue 5180 far-red 5180	greenhouse 3641–3642, 4406, 6787 for harvesting throughout the year	responses, varietal differences, cucumber
irrigation 5185	1961	and gherkin 8660
light 5909	winter harvesting 2751	seed, germination, Nemophila spp.
far-red 1976, 4408	herbicides, tolerance, annual report, UK	3861 carbon dioxide, evolution, mustard 7073
far red, ethanol 4408 red 1976–1977, 4408	5154 identification, seedlings 8603	chlorophyll
ethanol 4408	Netherlands 1962	biosynthesis
media 5185	Noran 6787	bean (Phaseolus) 4505
pelleted seed 3623 under plastic 5185	ozone, injury, resistance 5178 pest resistance, <i>Pemphigus bursarius</i>	pea 4505 content, watermelon 7690
polysome formation 5181	1159	chloroplast, number, spinach 4394

Light contd.	Light contd.	Light contd.
coloured	intensity contd.	intensity contd.
amino acids, biosynthesis, Salvia sclarea	flower, development, tomato 2132,	potassium nutrition, tomato
7085	6931	6908–6909
disease incidence, enzyme activity,	flower bud	pruning and training
celery 8816	initiation	apple 7360
disease resistance, tomato 4575	cyclamen 8887	grapevine 5834
enzyme activity	olive, annual report, Italy 8050	respiration
orange 7149	Pharbitis spp. 3848	chrysanthemum 7860
tomato 4575	flowering	greenhouse crops 5683
essential oil, composition, chamomile	Aeschynanthus spp. 7951	peach 3491
3081	alstroemeria 7875	pear 3491
leaf, composition, orange 7149	fruit trees and plants 1708	responses chrysanthemum, annual report, USA
phytochrome	peach 3491	1315
degradation	pear 3491	varietal differences, cucumber and
Amaranthus spp. 3736	rose 5477	gherkin 8660
Mirabilis spp. 3736	tagetes 2217	transpiration, bean (Phaseolus) 2793
pea 3736	fruit	water relations
proteins, biosynthesis, Salvia sclarea	colour	apple 8397
7085	apple 7354	sugar cane 4102
shoot, growth, orange 7149	fruit trees and plants 1708	interaction
sugars, biosynthesis, Salvia sclarea	disorders, apple 2605	ethylene, chlorophyll biosynthesis,
7085	distribution, mandarin and tangerine	cucumber and gherkin 2779
duration 7850	8064, 8067	growth substances
growth studies, chrysanthemum 7859	drop, persimmon 3168	bean (<i>Phaseolus</i>) 195 coleus 1375
leaf, senescence, amino acids, content, tomato 1297	set, grapevine 5836 size	morning glory 1339
respiration, chrysanthemum 7860	apple 7354	tomato, annual report, Irish Republic
emission, leaf, drought resistance,	fruit trees and plants 1708	5150
strawberry 8508	sugars, content, grapevine 564	temperature
enzyme activity 1673	fruiting, precocity, cucumber and	growth, bean (Phaseolus) 7716
cotyledons	gherkin 1995	photosynthesis, bean (Phaseolus)
growth substances, fenugreek 3977	growth	7716
watermelon 7690	apple 1731	tomato 2132
leaf, sugar cane 8251	chrysanthemum 272	interception
pea 7733	lettuce 1973	high density planting, fruit trees and
ethylene production, inhibition, cabbage	growth studies, chrysanthemum 7859	plants 1710
8630	heterosis expression, antirrhinum 3853	plant stands 4
far-red calcium, metabolism, bean (<i>Phaseolus</i>)	growth substances, apple 1731	review, apple 8357 rootstock-scion relationships, apple
7713	photoperiodism	7356
chlorophyll	rose 6230	tree canopies, peach, annual report,
biosynthesis	tagetes 2217	Australia 450
bean (Phaseolus) 4505, 7715	temperature	juvenility, cauliflower and broccoli 7644
pea 4505	lettuce 1973	leaf, senescence, bean (Phaseolus) 4482
cold resistance, weigela, pyracantha	rose 6230	lipids, content, watermelon 7690
5485	juvenility, ivy 6217	nitrogen
enzyme activity, mustard 7980	leaf ascorbic acid	metabolism
growth substances, endogenous, pea 4514	content	spinach 2748 spinach beet 2748
leaf	peach 3491	nucleic acids, metabolism, pea 6012
development, bean (Phaseolus) 3716	pear 3491	pigments
growth, pea 3738	characters, capsicum 2095	biosynthesis
photosynthesis, vegetables 7806	chlorophyll	cabbage 3668
responses, mustard 334	content	celosia 6994
seed	mandarin and tangerine 6352	metabolism, radish 2766
germination	peach 3491	plant, responses, book 7305
lettuce 136, 1976	pear 3491	quality, spectral, latitude 5678
Nemophila spp. 3861 flower, petal movements, Kalanchoe spp.	distribution, mandarin and tangerine 8064, 8067	red anthocyanins, biosynthesis, cabbage
8928	initiation, lettuce 1973	8630
frost	movements, bean (Phaseolus) 5989	cell, division, pea 4508
injury, chloroplast damage, cucumber	optical properties, cucumber and	chlorophyll
and gherkin 2003	gherkin 8659	biosynthesis
resistance, black currant 4310, 6671	lettuce 1975	bean (<i>Phaseolus</i>) 4505, 7715
fruit	measurement 438, 1675	pea 4505, 6865
composition, cherry 5761	nitrogen nutrition, tomato 6908–6909	chloroplast, development, pea 6865
size, cherry 5761	pest incidence, sahlbergella singularis,	cold resistance, weigela, pyracantha
growth substances, absorption, pear 3495 infra-red	cacao 2443	5485
fruit	photosynthesis apple 3413	enzyme activity bean (<i>Vicia</i>) 8712
colour, tomato 8797	bean (<i>Phaseolus</i>) 2025, 2793	mustard 7980
ripening, tomato 8797	celery 2901	ethylene production, inhibition, pea
intensity	greenhouse crops 5683	2059
anthocyanins, biosynthesis, cranberry	potassium nutrition, cucumber and	flowering date, lily 3870, 4658
8498	gherkin 5958	geotropic responses, pea 2059
apical dominance, bean (Phaseolus)	rhubarb 2901	growth, lily 3870, 4658
8698	tree fruits 7325	growth substances, endogenous, pea
boron, absorption, sugar cane 4102	pigment stability, cucumber and gherkin	4514
carbohydrates, content, apple 1731	2776	leaf
disease incidence, enzyme activity,	pigments	development, bean (<i>Phaseolus</i>) 371
celery 8816	biosynthesis, rose 1394 degradation, cucumber and gherkin	growth, pea 3738 movements, <i>Albizzia</i> spp. 5265
disease resistance	4459	photosynthesis, vegetables 7806
capsicum 4538	plant	pigment stability, cucumber and gherk
tomato 4575	composition	2776
disorder incidence, petal blueing, rose	coffee 1588	responses, varietal differences, cucumbe
7949	oil palm, annual report, Nigeria	and gherkin 8660
enzyme activity	9181	seed
peach 3491	spinach 2903	germination
pear 3491 tomato 4575	tomato 6064 weight, lettuce 8611	lettuce 136, 1976 Nemophila spp. 3861
	Worght, fettace 0011	теторина врр. 3001

Subject Index		. 1043
Light contd.	Ligustrum spp. contd.	Lily bulb contd.
red contd.	soil .	storage, rots 7903
sugars, metabolism, pea 2058	temperature	treatment
reflection	root development 3925	fungicides 7902
leaf	root growth 3925 sulphur dioxide, injury, plant resistance	heat 7902
diseases, annual report, USA 599 measurement techniques 6485	7845	temperature 3870 Lily diseases
squash, annual report, USA 600	Lilac, annual report, Canada 2910	Botryodiplodia theobromae 1360
sources 3313	Lilac diseases	Botrytis elliptica, Argentina 6181
comparative trials, testing equipment	mottle 5465	brown ring formation 6180
3304	resistance, annual report, USA 1315	brown ring virus 6179
photosynthesis 3314	Lilac flower, cut, economics 4608 Lilac growth substances, retardants,	vectors, control 2248–2249 Fusarium oxysporum, control 7902
stomata, movements, tradescantia 5417	chlormequat 6212	latent virus, vectors, control 2248–2249
sugars, content, black currant 4310 sunlight	Liliaceae, ornamental species, Denmark	mosaic virus, vectors, control 2248-2249
absorption, intercropping, sugar cane	3863	Nectria radicicola, control 7902
2467	Lilium spp.	Penicillium corymbiferum, fungicides,
flowering, date, grapevine 586	pollination, mechanism, carbohydrate metabolism 2253	resistant strains, benomyl 7903 P. spp., control 7903
fluorescent-incandescent lamps,	tuliposides 8908	Pythium spp., control 7902
compared, testing equipment 3304	L. tigrinum	streak mottle 6180
fruiting, precocity, cucumber and	flower	tulip breaking 6180
gherkin 1995 reflection, apple 2557	cation exchange capacity 7873	Lily flower
soil, temperature, intercropping, sugar	composition 7873 Lily	bud initiation, growth substances, GA 1362
cane 2467	annual report	carbon dioxide, content, style cavity
supplementary	Austria 265	1363
book 8307	Netherlands 2219, 6127	cut, fluorine injury, tap water 2913
capsicum 2096	USA 2152, 8834, 8839	drop, growth substances, GA 1362
cuttings, tea, annual report, Malawi	breeding and selection 2952 annual report, Canada 8836	number growth substances
6455	cytology 4661	EL-531 5431
equipment, ornamental plants 8841 flowering	meiosis 2948	ethephon 5431
alstroemeria 7875	dormancy 2949	Lily growth substances
ornamental plants 8841	dwarfing	application, methods, ancymidol 4659
flowering date	growth substances 2251, 5430, 8896 ancymidol 4659	dwarfing 5431 aminozide 8896
carnation 3839	CHE-8913 2252	ancymidol 1361, 2251, 4659
chrysanthemum 3842	EL-531 2252	CHE-8913 2251-2252
forcing, strawberry 5820	Phosfon 2252	chlormequat 1361, 2251, 5430, 8896
greenhouse crops 1334 growth	photoperiodism 2252 enzyme activity	EL-531 2252 ethenhon 1361
campanula 6160	flower 3851	ethephon 1361 Phosfon 2252
carnation 3839	temperature 2250	Phosphon 2251
lettuce 1975	flowering, date, growth substances 4659,	flower
seedling raising	5431	drop, GA 1362
kohl-rabi 2880 tomato 2880, 6096	fungicides, disease increase, benomyl 7903	number EL-531 5431
source	growing	ethephon 5431
natural gas	as an intercrop, Strelitzia spp. 8879	flower bud, initation, GA 1362
greenhouse 2498	as pot plants 5430, 8896	flowering
plant injury, greenhouse crops 2498	in pots, fertilizers, application 3869 heat treatment	date
Streptocarpus spp., annual report, UK	enzyme activity, flower 2250	ancymidol 4659 ethephon 5431
3832	fungus control, bulb 7902	injury
transmission	nematode control, bulb 7902	ancymidol 2251
leaf	herbicides, responses 8852	chlormequat 5430, 8842
measurement techniques 6485 squash, annual report, USA 600	irrigation, fertilizer, application 3869 light	leaf, size, GA 1362 responses, chlormequat 8842
tree canopies, apple 7355	red	Lily leaf, size, growth substances, GA
ultra-violet	flowering date 3870, 4658	1362
alkaloids, content, medicinal plants	growth 3870, 4658	Lily nutrition 1325
6288	photoperiodism dwarfing 2252	fertilizers
filtered by, plastic 679 fruit	flowering 3870, 4658	application irrigation 3869
colour, tomato 8797	growth 3870, 4658	methods compared 3869
ripening, tomato 8797	light, sources, compared 3870, 4658	slow-release 3869
pest resistance, grapevine 7577	phytochrome	Lily-of-the-valley
reflection, flower, crucifers 1986 seed, treatment, alkaloids content,	system light, supplementary 4658	glycosides . content
medicinal plants 6288	photoperiodism 4658	flower 7914
water, movement, pea 3737	pollen	leaf 7914
white, calcium, metabolism, bean	germination	seasonal variations 6189
(Phaseolus) 7713	carbon dioxide 1363 ethylene 1363	stomata, number, taxonomy 6188
yellow, leaf, growth, pea 3738 Ligustrum spp.	humidity 7010	taxonomy, stomata, number 6188 Lily pests
alkaloids 4824	studies 5432	aphids, virus, vectors, control 2248–2249
diseases, Cercospora spp. 6240	tissue culture 292	Pratylenchus penetrans, control 7902
ethylene, concentration, flooding 3837	pollen tube	Lily propagation
flooding, ethylene, concentration 3837	growth	bulb scales, tissue culture 731
fluorine, toxicity, plant tolerance 7845 glycosides 4723	carbon dioxide 1363 ethylene 1363	shoot-tip culture 731 Lily root, growth, bulb pre-cooling 5429
growing, in containers, weed control	structure 2951	Lily seed
8853	pollination, artificial, seed production	production, pollination, methods
herbicides 8852	2952	compared 2952
application, mulches 8853	tissue culture	sugars, content 8883
injury, dichlobenil 8853 nutrition, nitrogen, annual report, Irish	bulb scales 731 pollen 1363	Lily varieties, pot plants 5430 Lime (<i>Citrus</i>)
Republic 2909	shoot-tip 731	essential oil, composition 4023
propagation, cuttings, media 708	weed control 2247, 8852	harvesting, disorder incidence 4017
root	yearbook, USA 5427–5428	pollination 4008
development, soil temperature 3925	Lily bulb pre-cooling, root growth 5429	Rangpur, as a rootstock, heat resistance 7141
growth, soil temperature 3925	pre-coomig, root growin 3427	7.141

2011		
Lime (Citrus) contd.	Liriomyza langei	Lolium contd.
as a rootstock	garlic pests 5298	L. spp.
citrus 5558	onion pests 5298	lawns 2967
review 3102	L. munda	lawns and sports turf
	control, chrysanthemum pests 6973	irrigation, requirements 8915
disease resistance, grapefruit 9092		
storage	tomato pests 1288, 4576-4577	seed, sowing, methods, tillering 6192
dips, disorder control, stylar-end	L. trifolii, watermelon pests, annual report,	tillering, seed sowing, methods 6192
breakdown, 2,4-D 4017	USA 4368	tree root competition 303
disorder incidence 4017	Liriope spp., taxonomy, cytotaxonomy	variety trials 7021
weed control 6325	3905	weed incidence 8915
Lime (Citrus) diseases	Listronotus oregonensis, carrot pests, annual	orchard tracks 3890
control, review 5540	report, Canada 2734	roadsides, establishment 3888
	Litchi	Longan, growing, USA 1531
exocortis 8076	growing, USA 1531	Longidorus elongatus, hop pests, annual
Fusarium spp. 5563	nematicides	report, German Federal Republic 706
greening, control 9090	application	L. martini, vectors, ringspot, mulberry pest
Lime (Citrus) disorders		8451
oleocellosis 4017	methods compared	
stylar-end breakdown 4017	Ciba 14421 6373	Longiunguis sacchari, aerial spraying, suga
Lime (Citrus) flower, sex 4008	DBCP 6373	cane pests 8235
Lime (Citrus) fruit	Mocap 6373	Lonicera japonica
	organic acids, biosynthesis, fruit,	shoot
ascorbic acid	Aspergillus variecolor 8110	growth 5483
content	Litchi diseases	morphology 5483
fruit size 8101	Aspergillus variecolor, host organic acids,	L. spp.
seasonal variations 8101	biosynthesis 8110	boron, pollen germination 3000
Lime (citrus) fruit, hydrocarbons,	Cephaleuros virescens 4818	edible fruits, Siberia 1933
determination 1498	Litchi growth substances	fruit
Lime (Citrus) fruit	cuttings	catechins, content 1933
injury, resistance 9103	rooting	rutins, content 1933
	IBA 814	growing, USSR 4299
irradiation, gamma rays, mechanical		
injury resistance 9103	NAA 814	growth studies 8964
set, growth substances 1499	Litchi pests	growth substances
size, ascorbic acid, content 8101	Aceria litchi, annual report, India 4024	interaction, applied, chlormequat, and
wax coatings, mechanical injury resistance	Anoplophora macularia 373	endogenous 8965
9103	Hemicriconemoides mangiferae, soil	responses, chlormequat 8965
Lime (Citrus) growth substances	treatment 6373	pollen, germination, boron nutrition
fruit, quality, GA, annual report, USA	Xiphinema brevicolle, soil treatment	3000
2375	6373	root, growth, development, soil,
fruit set 1499	Litchi propagation	temperature 3925
Limonium spp.	air-layering, nematode survival 6373	soil, temperature, root, development,
flower, flavonoids, content 723	cuttings	growth 3925
flowering	growth substances IBA 814	Lophanthus anisatus, essential oil, content
date	NAA 814	7983
photoperiodism 6996	under mist 5677	Lophophora spp., alkaloids 3080
temperature 6996	Litchi varieties	Loquat, growing, India 4819
photoperiodism, flowering date 6996	annual report, USA 2375	Loquat diseases
temperature, flowering date 6996	Hawaii 5585	Aspergillus niger 4820
Linaria spp., choline, determination 2933	Lithium, leaf analysis, citrus 1484	Pseudomonas eriobotryae 5587
Lindera erythrocarpa, ketones,	Lithocolletis blancardella	Spilocaea eriobotryae 815
determination 4769	apple pests 5738	Loquat propagation
L. spp	population studies, apple pests 956	air-layering 5586
essential oil, chemotaxonomy 5498	L. purifoliella, apple pests 4217	budding, shield 5586
taxonomy, essential oil 5498	Litsea spp., alkaloids, content 2362	grafting, veneer 5586
	L. turfosa	Lordops aurosa, cacao pests 3185
Lipaphis erysimi		
control, mustard pests 7971	alkaloids 9040	Lotus spp., roadsides, establishment 3888
mustard pests 330	phenolic compounds 9040	Loxopterygyum huasango, gum 4781
radish pests 1180	Liverworts	Lucuma mammosa
Liquidambar styraciflua	control 13	fruit
ethylene, treatment 2979	container-grown plants, annual report,	firmness 3174
staking 2979	UK 8838	ripening 3174
trunk	medicinal properties, survey 775	L. nervosa, fruit, aroma 7171
girth 2979	Lixophaga diatraeae, parasite of, Diatraea	Luffa cylindrica
stress distribution 8939	saccharalis, sugar cane 2469	enzyme activity
wind, damage 2979	L. sphenophori, parasite of, Rhabdoscelus	fruit, soil salinity 2838
Liquorice	obscurus, sugar cane 5653	leaf, soil salinity 2838
dye plants 3943	Lobelia fulgens, flower, cut, production	nucleic acids, biosynthesis, soil salinity
glycosides 7108	2215	2838
	L. inflata	nutrient, absorption, soil, salinity 3773
growing on terraces 5524	growing, as a medicinal plant 8029	soil
USSR 4768	as medicinal plants 8029	salinity
medicinal properties 6299	L. nicotianaefolia, alkaloids, content 2332	enzyme activity 2838
organic acids 7108	Lobelia seed	nucleic acids, biosynthesis 2838
determination 8024	sowing, direct, in pots, pelleted 2165	nutrients, absorption 3773
products and by-products, Organit,	treatment, pelleted 2165	plant, tolerance 3773
planting media 6985	Lobelia spp., alkaloids 6303	L. spp.
Liquorice propagation, cuttings, root 779	Lobesia botrana	chlorophyll, degradation, cucurbit mosai
Liquorice root	grapevine pests 4351	virus 1259
composition, formononetin 350	annual report, Cyprus 3560	diseases
glycyrrhizin, content 779	Loganberry	cucumber mosaic, plant metabolism
regeneration, soil, cultivation depth 5524	economics	3684
Liquorice seed	EEC 3343	cucurbit mosaic virus, chlorophyll,
germination, temperature 1457		
	UK 3343	degradation 1259
sowing, depth 1457	production and trade	mosaic virus 1189
treatment	EEC 3343	Sphaerotheca humuli 6823
sulphuric acid 1457	UK 3343	photosynthesis, diseased plants 3684
X-rays 7109	Loganberry diseases, Agrobacterium	pollen
Liquorice soil	tumefaciens, annual report, UK 7489	morphology 7694
cultivation	Lolium multiflorum, overseeding, lawns and	physiology 7694
depth 5524	sports turf 2264	respiration, diseased plants 3684
root regeneration 5524	L. perenne	Lunar materials, nutrient absorption,
Liriodendron spp., organic acids, content,	lawns and sports turf	vegetables 4380
seasonal variations 4163	UK 7917	Lunaria spp., alkaloids, structure, seed
L. tulipifera 4724	Yugoslavia 7915	1354–1355
		1001 1000

Dudjeet Index		10
Lupin, breeding and selection, annual report,	Magnesium	Magnesium contd.
Canada 2910	absorption	leaf analysis contd.
Lycopersicon cheesmanii, pigments, biosynthesis 257	aluminium nutrition, apple 5730 fruit, set, mandarin and tangerine	coffee 1570 oil palm 7214
L. spp., diseases, Corynebacterium	3111	orange nutrition 1478, 1485
michiganense, resistance 2872	orange 6342-6343	peach nutrition 1018
Lycoriella auripila	orange nutrition 7135	petiole analysis compared, grapevine
insecticides, application, methods compared, mushroom pests 4602	peat pH, chrysanthemum 6145 application	8551 sugar cane 412
mushroom pests 7838	foliar, orange nutrition 1485	nitrogen nutrition, viburnum, annual
Lyda nemoralis, apricot pests 63	methods compared, fruit trees and	report, USA 6129
Lygus lineolaris annual report, Canada 2515	plants 866 cell wall, composition, pea 8730	petiole analysis, leaf analysis compared,
peach pests, annual report, USA 4945	content	grapevine 8551 phosphorus nutrition, mandarin and
strawberry pests 1887	aluminium nutrition, bean (Phaseolus)	tangerine 9083
annual report, Canada 2669 L. pabulinus	5974 copper nutrition, coffee 393	plant analysis, sugar cane 6437
apple pests 478	disease incidence, grapevine 1913	potassium nutrition, mandarin and
annual report, German Federal	flower, peach 6631	tangerine 9083 requirements, vegetables 4381
Republic 6506 L. rugulipennis, vegetables, pests 4429	fruit peach 6631	soil analysis, soil pH, cacao 7180
Lymaenon spp., parasite of, Tapajosa	tomato grafted on potato 8795–8796	sources
rubromarginata, sugar cane 5655	irradiation resistance, pea 1241	cauliflower and broccoli, annual repor
Lyonetia clerkella, control, peach pests 7448	leaf apple 6553	UK 4366 compared
Macadamia	calcium nutrition, mandarin and	citrus, annual report, USA 8051
bibliography 4821	tangerine 8071	mandarin and tangerine 7137
climate, requirements 5590	drought	orange 1485
grading 8111 growing, South Africa 1516	sugar cane 2474, 8200 tomato 2474	toxicity, cucumber and gherkin nutrition 1997
harvesting 8111	flooding	translocation
processing 8111	sugar cane 2474, 8200	bean (Phaseolus) 2028
report, USA 6324 symposium 7164	tomato 2474 potassium, deficiency, mandarin and	temperature, bean (<i>Phaseolus</i>) 2028 yield reduction, tea 9277
temperature, sums 5590	tangerine 3117	Magnolia
yield, estimation, tree age 4822	rootstocks, plum 2657	nursery management, overwintering 54
Macadamia diseases Botrytis spp. 375	seasonal variations, apple 6554 nitrogen nutrition, orange 1478	organic acids, content, seasonal variation 4163
Phytophthora nicotianae 2418	plant	planting, WANE system, roadside plant
Macadamia disorders, chlorosis, phosphorus	fruiting, fruit trees and plants 5705	3908
nutrition 6374 Macadamia nut	potassium nutrition, pea 5243 vegetables 8702	respiration, wind 5254 wind, respiration 5254
drying 8111	potassium nutrition, orange 1478	Magnolia diseases, Cylindrocladium
shelling 8111	root, nitrogen nutrition, tea 8270	scoparium 7039
Macadamia nutrition iron, chlorosis, phosphorus nutrition	shoot root temperature, chrysanthemum	Magnolia flower anatomy, integuments 7941
6374	8863	development, integuments 7941
phosphorus, iron deficiency 6374	seasonal variations, apple 6554	Magnolia propagation
Macadamia propagation cuttings 1517	tuber, tomato grafted on potato 8795–8796	cuttings annual report, Irish Republic 2909
grafting 5589 review 374	deficiency	frame 6134
	apple 6558	overwintering 4694
Macadamia spp., edible fruits 1516 Macadamia varieties 4822	chrysanthemum nutrition 1325 citrus nutrition, annual report, USA	shoot, age 5466 treatment
Hawaii 5588	2375	growth substances
Maconellicoccus hirsutus, host reactions,	coffee 9166	Chloromone 5466
mulberry pests 5026 Macropes excavatus, sugar cane pests 7247	grapevine, annual report, USA 1440, 5078	2,4-D 5466 IBA 5466
Macrophoma dalmatica, olive diseases 3166	leaf analysis, mangosteen nutrition	Magnolia root
M. spp.	1667	acuminatin, content 5468
apple diseases 2577 cacao diseases 4845	manganese nutrition, banana, annual report, Australia 5600	lignans, content 5468 Mahaleb propagation
Macrophomina phaseoli	orange nutrition 1485	cuttings
bean (Phaseolus) diseases 5250	passion fruit nutrition 1524	root, treatment, growth substances, II
marrow diseases 4456 seed-borne, bean (<i>Phaseolus</i>) diseases	plant sensitivity, vegetables 5162 symptoms	8323 treatment, growth substances, IBA
5982	coffee 3198	8323
M. phaseolina, tulip diseases 3317	tomato 4567 tomato 4567	Mahonia spp. leaf
Macroposthonia xenoplax, grapevine pests 1919	tulip, annual report, Netherlands 6962	anthocyanins, content, respiration
Macrosiphum euphorbiae	determination	8944
biological control, cucumber and gherkin	atomic absorption spectrophotometry	colour, respiration 8944
pests 3685 vectors	8290 methods 8289	respiration, leaf, colour 8944 Malawi, bean (<i>Phaseolus</i>), growing 8673
subterranean clover stunt, yellow	disease incidence	Malaysia, rubber, growing 8176
mosaic, legumes 6846	marigold 2205, 5412	Mallotus philippinensis, flavonoids 6245
virus bean (<i>Vicia</i>) pests 6846	stock 2205, 5412 tomato 2205, 5412	Malpighia spp., fruit, composition, ascorbi acid 1050
pea pests 6846	disease resistance, begonia, annual report,	Malus mandshurica 4175
M. fragariae, blackberry pests 5079	Belgium 8835	taxonomy 5711
M. funestum, blackberry pests 5079 M. pisi	disorder incidence, stalk desiccation, grapevine 5126	M. spp. annual report, UK 2155
host nutrition, foliar, pea pests 1232	enzymes, biosynthesis, cucumber and	breeding and selection
predators, pea pests 1232	gherkin 5963	disease tolerance, Podosphaera
Macrosteles sexnotatus mycoplasma	fruit composition	leucotricha 2539 fruit, size 2539
vectors	cherry 69	pest resistance, <i>Dysaphis</i> spp. 2539
hyacinth 7007	orange 370, 1478	diseases, Venturia inaequalis, annual
hyacinth pests 290 mycosplasma, vectors, gladiolus pests	leaf analysis apple 3402, 7368	report, UK 6128 enzyme activity, determination 1063
290	banana 9131	ethylene, concentration, flooding 3837
Madhuca indica, glycosides, content 2341	carrot 6109	flooding, ethylene, concentration 3837
Maecolaspis ornata, cacao pests 3185	citrus 1484	frost, resistance 4187

Malus spp. contd.	Mandarin and tangerine contd.	Mandarin and tangerine contd.
growth substances, internode, length,	high density planting, light intensity	sugars, content, fruit, drought 8093
brassins 4726	8064	temperature, leaf, chlorophyll, content 6352
juvenility 4725	hybrids	
pollen, production, for bees 3930	fruit, ascorbic acid 3158 interspecific 5545	transport, pre-cooling, temperature, container— 4016
as a pollinator, apple, annual report, UK 903	insecticides	tree
propagation, cuttings, treatment, growth	plant composition	crown foliar density
substances 3931	dimethoate 3138	light intensity 8064
virus-tested plants, EMLA scheme 7320	formothion 3138	pruning and training 8067
as windbreaks 3930	tetradifon 3138	crown fruit distribution
M. spp., ornamental	plant metabolism	light intensity 8064
diseases	demeton-methyl 3138	pruning and training 8067
chlorotic leaf spot 7058	dicofol 3138	Mandarin and tangerine diseases
decline 7058	dimethoate 3138 efirsulphonate 3138	Alternaria citri canned fruit 3151
platycarpa scaly bark 7058	formothion 3138	fruit storage 5574
Spy 227 epinasty 7058	tetradifon 3138	Cladosporium spp., canned fruit 3151
varieties, virus tolerance 7058	residues	collar rot, cause unknown 362
M. spp., ornamental, propagation, cuttings,	arsenic 3329	Colletotrichum gloeosporioides 4800
annual report, Canada 8836	fruit	Deuterophoma tracheiphila 365
Malvaviscus arboreus flower, bud initiation 5484	demeton-methyl 3138	varietal resistance 3131
growing, as pot plants 5484	dicofol 3138 dimethoate 3138	Diaporthe citri 3128 Diplodia natalensis 4810
photoperiodism, flower bud, initiation	efirsulphonate 3138	exocortis virus 2386
5484	formothion 3138	Penicillium digitatum 4810
temperature, flower bud, initiation 5484	tetradifon 3138	P. spp., fruit storage 7153
Mamestra brassicae, cabbage pests 5195	irrigation, fruit, juice composition 3155	satsuma dwarf, Turkey 8077
Mammea americana	light	Xanthomonas citri, pathogen survival
coumarins 4909-4910	intensity	5561
fruit	fruit, distribution 8064, 8067	Mandarin and tangerine disorders
firmness 3174	leaf	stem-end rot, fruit storage 7153
ripening 3174 medicinal properties 4909	chlorophyll, content 6352 distribution 8064, 8067	water spot 804 Mandarin and tangerine fruit
plant, composition 4909–4910	photosynthesis 7325	acidity
Mammillaria spp.	magnesium	determination 6365
flower, bud initiation, temperature,	content	orchard location, altitude 5577
photoperiodism 6200	leaf	amino acids 7157
photoperiodism, temperature, flower bud,	calcium nutrition 8071	ascorbic acid 3158
initiation 6200	plant nutrition 9083	content
Mandarin and tangerine	manganese, content, leaf, biennial bearing	phosphorus nutrition 8072
altitudes, fruit, quality 3107 amino acids	7139 mulching, peat 3991	plant nutrition 7158 storage 5573, 7153
content	nitrogen	carbohydrates, accumulation, growth
fruit 8086	content	substances 2398
drought 8093	disease resistance 3131	colour
leaf 8086	frost resistance 3131	ethylene, treatment 2410
biennial bearing	leaf, plant nutrition 9083	growth substances 3149
fruit, thinning, growth substances,	nutrient absorption, fruit, set 3111	ethephon 2407, 2410
NAA 801	organic acids, content, fruit, drought 8093	GA 804
growth substances 802 leaf, manganese, content 7139	packing, fruit weight loss 7151	nitrogen nutrition 8070 soil moisture 8070
pruning and training 1477	phosphorus	composition 3155, 5575, 7157
breeding and selection 3099	content	altitude 3107
interspecific hybridization 5545	leaf 7133	drought 8093
calcium, content, leaf, plant nutrition	plant nutrition 9083	fruit ripening 8093
9083	photosynthates	growth substances 802
carbohydrates	translocation 5567	harvesting date 6366
content disease resistance 3131	fruiting 5568 photosynthesis 7325	nitrogen nutrition 8070 plant nutrition, soil management 7158
frost resistance 3131	leaf age 5568	rootstocks 4788, 8062
fruit 9108	leaf nitrogen content 5568	soil, moisture 8070
leaf 9108	plant nutrition 9100	degreening
metabolism 2398	planting	disease incidence
translocation 2398	high density, light intensity 8064	Diplodia natalensis 4810
chlorophyll, content, plant nutrition	spacing, light intensity 8064	Penicillium digitatum 4810
9100 drought, fruit, composition 8093	polyembryony 9079 potassium, content, leaf, plant nutrition	ethylene 4810 distribution
flowering	9083	light intensity 8064
nitrogen nutrition 8070	products and by-products	pruning and training 8067
soil moisture 8070	canned segments 3151	injury, resistance 9103
frost	juice, composition 3155	irradiation, gamma rays, mechanical
protection	pruning and training	injury resistance 9103
covers, plastic 7130	biennial bearing 1477	loosening, growth substances, ethephon
temperature data 6335 resistance 3101	fruit, distribution 8067	2407
carbohydrates, content 3131	leaf, distribution 8067 respiration	nutrients, content, fruit, set 3111 organic acids 7157
nitrogen, content 3131	fruit	content, phosphorus nutrition 8072
polyploids 7129	growth substances, ethephon 3149	peel, composition, annual report, USA
fungicides	storage, temperature 7153	8051
residues	ringing, fruit, size 803	pigment accumulation, growth substances
fruit	as a rootstock	ethephon 2410
2-aminobutane, annual report,	grapefruit 6332	pigments, metabolism 4005
USA 2375 biphenyl 9107	orange 795 seedling, identification, leaf, shape 7124	quality altitude 3107
phenylphenol 9107	sodium, content, leaf, plant nutrition	evaluation 6365
growing	9083	growth substances 6358
Mozambique 360	statistical design of trials 361	orchard location, altitude 5577
tunnels, plastic, frost protection 7130	storage	rind curing, weight loss 9105
growth-yield, relationships 7136	cold, temperature 7153	ripening, amino acids, content 2413
harvesting	controlled atmosphere 5002	size
method, fruit, storage quality 5573 time of, fruit composition 6366	rind curing 9105	growth substances 802
time of, fruit composition 0500	temperature, fruit, composition 5573	GA 803

Subject Index		1047
Mandarin and tangerine fruit contd.	Mandarin and tangerine nutrition contd.	Manganese contd.
size contd.	nitrogen contd.	availability
phosphorus nutrition 8072	flowering 8070	coffee nutrition 7191
plant nutrition, soil management 7158	fruit colour 8070	nitrogen nutrition
storage quality 5573	leaf, chlorophyll, content 6352	chrysanthemum 8589
sugars 7157	phosphorus nutrition 9083	vegetables 8589
content 6365	photosynthesis 9100	cold, resistance, lemon nutrition 1483
phosphorus nutrition 8071	potassium nutrition 9083 sources, compared 7134	content
plant nutrition 7158 storage 7153	translocation 9084–9085	calcium nutrition, orange 1478 flower, peach 6631
thinning	NPK 7158	fruit, peach 6631
growth substances 3145, 6358	leaf analysis 9083	leaf
NAA 801	photosynthesis 9100	apple 6553
wax coatings, mechanical injury resistance	soil pH 9083	biennial bearing, mandarin and
9103 weight	phosphorus 8071	tangerine 7139 iron nutrition, tomato 7789
loss, handling 7151	deficiency 8071	mandarin and tangerine 7139
rind curing 9105	fruit	nitrogen nutrition, sources, peach
storage 9105	ascorbic acid, content 8072 organic acids, content 8072	3470
Mandarin and tangerine growth substances	size 8072	rootstocks, plum 2657
biennial bearing 802 carbohydrates	leaf analysis 7133	soil fumigation, avocado 8055 soil steaming, avocado 8055
accumulation	potassium nutrition 9083	soil sterilization, tomato 240
chlormequat 2398	potassium 3116-3117	sugar cane, annual report, South
GA 2398	deficiency 3117	Africa 7230
kinetin 2398	deficiency symptoms 7136	varietal differences, apple 6554
fruit colour	phosphorus nutrition 9083 plant analysis 7136	magnesium nutrition, orange 1478
ethephon 2407, 3149	sewage sludge, photosynthesis 9100	nitrogen nutrition, tea 6457 plant
GA 804	Mandarin and tangerine pests	nitrogen nutrition, tomato 4563
composition	Anoplophora spp., rootstock resistance	soil steaming, vegetables 8606
NAA 802	7128	root, nitrogen nutrition, tea 8270
TIBA 802 disorders, GA 804	Aonidiella aurantii population studies, damage 2396	seasonal variations, hop 344 shoot
loosening, ethephon 2407	resistance 3134	root temperature, chrysanthemum
pigment accumulation, ethephon 2410	mites, biological control 366	8863
quality, NAA 6358	Saissetia oleae 9098	varietal differences, apple 6554
size	Mandarin and tangerine root	deficiency 3299
GA 803 NAA 802	development, soil, management 3991	calcareous soils, iron, sources, citrus
TIBA 802	growth, biennial bearing 7139 nutrients, content, fruit, set 3111	nutrition 1480 coffee 9166
thinning	Mandarin and tangerine rootstocks	cucumber and gherkin 7683
NAA 801, 3145, 6358	comparative trials	diagnosis, enzyme activity, vegetables
TH 656 3145	Citrus junos 8062	1145
respiration, fruit, ethephon 3149 Mandarin and tangerine leaf	Poncirus trifoliata 8062 pest resistance 7128	enzyme activity, sugar cane 1632 lettuce, annual report, Netherlands
age	Poncirus trifoliata 3101, 4788	1135
manganese content 9088	-scion relationships	mandarin and tangerine 9088
manganese deficiency 9088	frost resistance 3101	radish, annual report, UK 8583
ascorbic acid 3158	fruit	symptoms, cauliflower and broccoli
chlorophyll, content 6352 composition, mineral elements 1484	characters. 7128 composition 4788, 8062	nutrition 1983 determination, atomic absorption
distribution	leaf	spectrophotometry 8290
light intensity 8064	composition 1484	enzyme activity
pruning and training 8067	nutrients, content 8062	grapevine 5138
manganese, content 7139	yuzu 7128 Mandarin and tangerine shoot, nutrients,	leaf, grapevine 1111
nutrients	content, fruit, set 3111	enzymes, biosynthesis, cucumber and gherkin 5963
fruit, set 3111	Mandarin and tangerine soil	flower, formation, ornamental flowers
rootstocks 8062	management	1343
temperature, photosynthesis 7325	fruit, juice composition 3155	flowering, autumn, lemon nutrition 1483
Mandarin and tangerine nutrition	methods compared 3991	fruit
absorption, calcium nutrition 6344	fruit quality 7158 moisture	composition, strawberry 5817 quality, strawberry 5817
determination, methods 3120	flowering 8070	composition
fruit	fruit quality 8070	black currant 8486
composition 7158	requirements 8068	mandarin and tangerine 7158
size 7158 calcium 7158, 8071	Mandarin and tangerine varieties	peel thickness, apple 6559
boron absorption 6344	comparative trials, annual report, Burundi 4786	quality, juice content, orange 63426343
deficiency 8071	disease resistance, Deuterophoma	size
phosphorus nutrition 9083	tracheiphila 3131	black currant 8486
photosynthesis 9100	frost, resistance, leaf, composition 3131	mandarin and tangerine 7158
potassium nutrition 9083 sources, compared 7137	Mandragora spp., alkaloids 9041	iron imbalance, apple 4203
FYM, photosynthesis 9100	Manganese absorption	leaf absorption, surfactants, vegetables
general, chlorophyll, content 9100	orange 6342-6343	1136
green manures 3991, 7158	phosphorus nutrition, avocado 8055	composition, apple 4977
magnesium	soil salinity	potassium content, orange 9087
phosphorus nutrition 9083	squash 6912 tomato 6912	leaf analysis apple 3402
potassium nutrition 9083 sources, compared 7137	application	citrus 1484
manganese	foliar	cucumber and gherkin 7683
content, leaf 7139	almond 8333	mandarin and tangerine 9088
deficiency 9088	capsicum 6892–6893	oil palm 7214
fruit composition 7158	disease incidence, grapevine 7568 grapevine 7568	sugar cane 412 nitrogen, content, orange nutrition 1481
size 7158	orange 1482, 4791, 6342-6343	photosynthesis, grapevine 1111
leaf analysis 9088	ornamental flowers 1343	plant
nitrogen	precipitants, orange 9086	anatomy, grapevine nutrition 5105
absorption 9084–9085 application, time 8070, 9084–9085	residues, orange 9086 strawberry 5816	composition, amino acids, pea 5284 plant analysis, sugar cane 6437
composition 8070	surfactants, vegetables 1136	respiration, grapevine 5138
4		

Manganese contd.	Mango contd.	Mango nutrition
rootstock production, pear 5788	transport 3210	calcium, leaf analysis 5631
seed, production, ornamental flowers	vitamins, content 3339	nitrogen, leaf analysis 5631
1343	wax coatings, fruit 8163	phosphorus, leaf analysis 5631
sources	weed control 6325	potassium, leaf analysis 5631
chrysanthemum 8589	Mango diseases	Mango pests
vegetables 8589	bacterial rot 4871	Aceria mangiferae 3228-3229, 4065
toxicity	Colletotrichum gloeosporioides	cryptophagid beetles 4065
banana, annual report, Australia 5600	fruit storage 4873	Eupithecia spp. 4065
calcium nutrition, pear 3492	storage dips 7205, 8163	Frankliniella cubensis 4065
chrysanthemum nutrition 1325	control, review 5540	Lepidosaphes pallida, population studies
coffee nutrition 7191	Diplodia natalensis 3242	9179–9180
cucumber and gherkin 7683	fruit storage 4873	Mycetaspis personatus 399
holly 4691, 6216	storage dips 7205	population studies 811
nitrogen nutrition	fruit rots 4872	nitidulid beetles 4065
chrysanthemum 8589	Fusarium moniliforme 4065	Mango plant, development 1463
vegetables 8589	Marasmius spp. 823	
pepper, black 4735	Nodulisporium indicum 4869	Mango propagation 3215
soil, steaming, melon (cantaloup and	Oidium spp. 7203	air-layering 3227
musk) nutrition 1998	Physalospora rhodina 1593	media 3218
water relations, melon (cantaloup and	Pseudomonas spp. 3232, 8162	root initiation, biochemistry 3226
musk) 2773	soft brown rots, storage dips 8163	treatment, growth substances
Mango	Verticillium dahliae 4066	3226–3227
air pollution	Mango disorders	budding 3216
injury	black tip 1592, 4064	methods compared 3218
acidic fumes 1592, 4064	bunchy top 2455	cuttings 3216, 3220
prevention 1592, 4064	flower malformation 3228, 3230-3231,	media 3220
annual report	4065	source plants
Australia 1529	pest incidence 3229	ringing 3219
India 4034	Mango flower	treatment, growth substances 3219
Sri Lanka 3171	bud initiation, growth substances,	grafting 3216
USA 1530	ethephon 7204	methods compared 3221, 5629
biennial bearing	development, temperature 3230	scions
growth substances	malformation 3228, 3231	storage 3221
endogenous 3241	pest incidence, Aceria mangiferae 3229	treatment, leaf removal 3222
ethephon 7204	temperature 3230	side- 3222
review 3238	Mango fruit	veneer 3221, 5629
shoot	aroma 7171	under mist 5677
carbohydrates, content 3239	storage, dips 7205	stool-bed formation 3217
nitrogen, content 3239	ascorbic acid, content, irradiation,	Mango rootstocks 3215
breeding and selection 3210	ionizing, post harvest 1595	comparative trials
polyembryony 7202	colour	Indonesia 4868
carbohydrates, content, biennial bearing	irradiation, ionizing, post-harvest 1595	polyembryonic 3224–3225
3239	storage, dips 7205	seedling 3224
epiphytes, fungi, Marasmius scandens	composition 5633	-scion relationships 5630
823	storage, dips 7205	selection methods 3223
flowering	development 5633, 9178	Mango seed
date, growth substances, ethephon	growth substances, endogenous 3241	development 9178
7204	firmness 3174	germination, media 840
growth substances	storage, dips 7205	storage, media 840
aminozide 3236	heat treatment, disease control 4873	Mango shoot, exudate, composition 4870
chlormequat 3236	irradiation	Mango varieties 3240, 4874, 6409
GA 3237	gamma rays	Anupan 3214
fungicides	injury 8163	Au Rumani 839
injury	post-harvest 1596	Bride of Russia 3214
benomyl 4873	storage life 2435, 3210	comparative trials
thiabendazole 4873	ionizing, post-harvest, storage life	annual report, USA 6383
genetics 3210	1595	India 9177
growing	maturity, standards 3210	evaluation, Florida 5627
India 3212	pigments, content, irradiation, ionizing,	fruit, ripening, time 3240
Philippines 2454, 3210	post harvest 1595	India 3210, 5628
review 3211 USA 3213	proteins, content 4941	Katiki Bihar 3214
	ripening 3210, 5633	Keshar 3214
Venezuela 8119	bio-chemistry 3174	Langra Dudhia 3214
harvesting 3210 nitrogen, content, biennial bearing 3239	storage, dips 7205 set, growth substances, chlormequat	Neelum 3214 Nisar Pasand 3214
pollination 3210	3236	polyembryonic 7202
pruning and training	treatment	processing 4875
apical dominance 3234	fungicides 7205	Mangosteen disorders, little leaf, Fe/Zn
axillary flowering 3235	hot water 7205	imbalance 1667
biennial bearing 3235	Mango growth substances	Mangosteen nutrition
ringing	biennial bearing, ethephon 7204	iron, zinc imbalance 1667
apical dominance 3234	endogenous	magnesium, deficiency, leaf analysis 16
axillary flowering 3235	fruit 3241	zinc, iron imbalance 1667
seedling, planting 7202	apical dominance 3234	Manila hemp, cover crops, Pueraria javann
storage 3210	leaf 3233	2437
dips	seed 3241	Manila hemp diseases, abaca mosaic virus,
benomyl 4873	shoot 3233	vectors 2437
disease control 4873	apical dominance 3234	Manila hemp pests
Colletotrichum gloeosporioides	flower bud, initiation, ethephon 7204	Aphis gossypii, virus vectors 2437
hot water 7205	flowering	Rhopalosiphum maidis, virus vectors
sodium diethyldithiocarbamate	chlormequat, aminozide 3236	2437
7205	date, ethephon 7204	Maranta, growing, media, annual report,
zineb 7205	GA 3237	Belgium 8835
residues, ethylene dibromide 3243	fruit, set, chlormequat 3236	Maranta spp.
rot control 4871	growth reduction, chlormequat, aminozide	acaricides, injury 7024
thiabendazole 4873	3236	disorders, leaf wilting, annual report,
rots 4871	responses, chlormequat, review 8310	Belgium 5386
temperature	Mango leaf	pests, mites, control 7024
flower	area, measurement 1594	Marasmius oreades, incidence, lawns and
development 3230	composition 5632	sports turf, diseases 7929
malformation 3230	development, nutrients, content 5631	M. palmivorus, control, oil palm diseases
topworking 1591, 3216	position, nutrients, content 5631	6384

3		
Marasmius contd.	Marrow nutrition contd.	Meloidogyne arenaria
M. perniciosus	nitrogen, toxicity, fruit, drop 1203	Calathea makoyana, pests, annual report,
cacao diseases, annual report, Venezuela	Marrow pests, Ditylenchus dipsaci 3878	Belgium 8835
6391	Marrow seed, production, growth	fruit trees and plants, pests 4931
hybrid resistance, cacao diseases 8132	substances, ethephon 5231	
		host reactions, capsicum pests 7762
resistance, breeding and selection, cacao	Marrow soil, cultivation 156	nutrient absorption, tomato pests 2878
diseases, annual report, Trinidad and	Marrow varieties	M. coffeicola, coffee pests 1581
Tobago 9136	comparative trials 1187	M. exigua
M. scandens, epiphyte, tropical fruit trees	disease resistance, bean yellow mosaic	Brazil, coffee pests 9168
823	7684	coffee pests 1581
M. spp., tropical fruit trees, diseases 823	growth habit 1992	M. hapla
Marcotting (see Air layering)	Marssonina juglandis, varietal resistance,	chinese gooseberry pests 4302
Margaronia hyalinata, melon (cantaloup and	walnut diseases 5066	growth substances, tomato pests 8785
musk) pests 5957	M. potentillae, strawberry diseases 4324	
M. nitidalis, melon (cantaloup and musk)	Mascarena verschaffeltii, seed, germination	ornamental plants, pests, annual report,
pests 5957	2415	Belgium 8835
Margyricarpus pinnatus	Matsumuratettix hiroglyphicus,	rootstock resistance, rose pests 1393
essential oil, composition 772		tomato pests 686
	mycoplasma, vectors, white leaf, sugar	annual report, Canada 5883
flavonoids, content 772	cane 7243	vegetables
Marigold 7870	Medicago hispida, as weeds, sugar cane	pests 2761
flowering, growth substances 7879	8204	annual report, German Federal
terpenes 4637	M. polymorpha, as a cover crop, yerba maté	
Marigold diseases, Pythium myriotylum,	8118	Republic 8579
magnesium nutrition 2205, 5412	Medicinal plants	M. incognita
Marigold flower, bud initiation, growth	alkaloids	Albizzia spp., pests 751
substances 7879	content 2346	coffee pests 1581
Marigold growth substances	survey, annual report, Sarawak 3933	cucumber and gherkin pests 5351
flower bud, initiation, chlorflurenol 7879	USSR 5516	fruit trees and plants, pests 4931
flowering, chlorflurenol 7879	book 8970	-fungus complex, tomato pests 2877
injury, chlorflurenol 7879	Bulgaria 6257	host-pest relationships, tomato pests
	chromosome numbers 1319	3807
shoot, growth, chlorflurenol 7879		
Marigold nutrition, magnesium, disease	economics, Czechoslovakia 7096	host reactions, capsicum pests 7762
incidence 2205, 5412	growing, Czechoslovakia 3063, 7096	incidence, Brazil, coffee pests 8152
Marjoram	Indonesia 1674	onion pests 3764
growing	Italy 6244	parsley pests 3014
media, compared 7605	medicinal properties 2347–2348	peach pests 4258
peat 7605	survey 2349	pepper, black, pests 7977
Marliera spp., growing, tropical America	pests	Pogostemon spp., pests 336
377	coleoptera, Bulgaria 1423	population studies, tomato pests 6091
Marocentrus marginator, parasite of,	Hemiptera 8003	resistance
Synanthedon tipuliformis, black currant,	plant, composition 1444	ornamental plants, pests 4615
red currant 6677	review 8004	tomato pests 3807
Marrow		
	root, anatomy 3172	root composition, tomato pests 244
annual report	seed, oil, biosynthesis 3336	rootstock resistance, peach pests 6624
Malawi 8580	survey 775	rubber pests 9215
UK 3613	Argentina 2348	soil fumigation, grapevine pests 7573
enzymes, root 7692	India 5515	tea pests, annual report, India 1657
fungicides	West Pakistan 5514	tomato pests 685, 5351, 6090
residues	Ukraine 1456	varietal resistance, tomato pests 1279
plant	wild, Crimea 862	M. javanica
copper 1190	Medicinal properties	disease relationships, almond pests 3367
streptomycin 1190	Bauhinia purpurea alba 2309	growth substances, tomato pests 8785
growing	Benincasa hispida 5944	host reactions, capsicum pests 7762
under plastic 679	citrus 808	nutrient absorption, tomato pests 2878
protected cultivation 2159, 5159	Cyperus scariosus 1416	onion pests 3764
tunnels 1187	medicinal plants 2347	pepper, black, pests 7977
growth, habit 1992	Ocimum sanctum 3974	resistance, ornamental plants, pests 4615
herbicides, translocation, simazine, annual	Medlar, growing 4607	soil fumigation, passion fruit pests 7168
report, UK 5943	Medlar diseases	tomato pests 685-686
mulching, plastic 156	Sclerotinia cydoniae 5800	annual report, Cyprus 3604
phosphorus, translocation, annual report,	S. fructicola 5800	M. spp.
UK 5943	S. fructigena 5800	bean (<i>Phaseolus</i>) pests, annual report,
potassium, translocation, annual report,	S. laxa 5800	USA 8585
UK 5943	S. mespili 5800	chicory pests 1152
Marrow diseases	Megastigmus pistaciae, pistachio diseases,	control, capsicum pests 6975
bean yellow mosaic, varietal resistance	annual report, Tunisia 4944	crop rotation, sugar cane 425
7684	Melaleuca alternifolia, essential oil,	leek pests 662
Corticium solani 4456	Australia 4737	ornamental plants, pests 4931
Drechslera halodes 4456	M. cajeputi, essential oil, composition 4741	resistance, tomato pests 2859
Erwinia carotovora 1190, 4454	Melampsalta puer	soil fumigation
	fungal control, Cordyceps heteropoda,	cabbage pests 7801
Erysiphe cichoracearum, control 7385,		
7686	sugar cane 1638	cucumber and gherkin pests 8783
Fusarium semitectum 4456	population survey, sugar cane pests 1638	onion pests 7801
F. solani 4456	sugar cane pests, annual report, Australia	tomato pests 7801, 8783
Macrophomina phaseoli 4456	9219	sugar cane pests 7246
Sphaerotheca fuliginea 6821	Melanagromyza phaseoli, bean (Phaseolus)	tomato pests 1290, 8784
Marrow flower	pests 167	vegetables
bud initiation	Melanaspis glomerata, sugar cane pests	annual report, USA 1935
growth substances	852	pests 4931
ethephon 1201	Melanotus communis, cabbage pests, annual	M. thamesi, onion pests 3764
NAA 1201	report, USA 4367	Melon (cantaloup and musk)
sex	Melasphaerula spp.	annual report
growth substances	seed	Australia 1133
		USA 599–600, 1130, 4368
ethephon 1201, 5231	composition 2943	
NAA 1201	oil 2943 Malastamasaga edible fruits 4117	breeding and selection
Marrow fruit, drop, nitrogen, toxicity 1203	Melastomaceae, edible fruits 4117	annual report, USA 3616, 7601
Marrow growth substances	Melia azedarach	pest resistance, <i>Diabrotica</i> spp. 2001
flower	glycosides 4771	polyploid, induction 4442
sex	insecticidal properties 4751	carbohydrates, content, flower bud, sex
ethephon 1201, 5231	steroids 8031	8663
NAÂ 1201	Melissa officinalis	cold, resistance, seed treatment 7677
Marrow nutrition	flavonoids 7079	cucurbitacin, content, pest resistance
FYM 156	organic acids 7079	1194

Melon (cantaloup and musk) contd.	Melon (cantaloup and musk) diseases contd.	Melon (cantaloup and musk) nutrition contd.
dark treatment fruit	Verticillium spp. annual report, Canada 2734	NPK 6816
composition 5962	Melon (cantaloup and musk) flower	flower
flavour 5962	number	number 8664
seedling development 5962	irrigation 8664	sex 8664
enzyme activity	plant nutrition 8664	potassium flower, sex 165
diseased plants 5220 inhibition, prenyl pyrophosphates 2030	carbohydrates 8663	fruit
flowering	climate 4462	quality 165
date	growth substances	set 165
phosphorus nutrition 6816	endogenous 1198 ethephon 1202, 5231	zinc, water relations 2773 Melon (cantaloup and musk) pests
potassium nutrition . 6816	nitrogen 8663	Aphis gossypii, resistance 4443
fungicides application, methods compared,	nutrition 165	Aulacophora foveicollis, varietal resistance
dimethirimol 5221	plant nutrition 8664	Diabrotica spp., varietal resistance 2001
injury	potassium 8663 sex expression, growth substances 1199	integrated control 3627
benomyl 5965	Melon (cantaloup and musk) fruit	Margaronia hyalinata 5957
thiophanate 5965 plant responses	amino acids, sugars, content 6834, 8667	M. nitidalis 5957
benomyl 5965	aroma 7171 ascorbic acid 165	Meloidogyne spp., annual report, USA 1935
thiophanate 5965	composition	Peridroma saucia, control 7669
thiophanate methyl 5965	calcium nutrition 6817	Melon (cantaloup and musk) root, growth
grading, mechanical 4913 growing	dark treatment 5962 growth substances, ethephon 2781	1147 Melon (cantaloup and musk) rootstocks
under glass, pest control 3627	nitrogen nutrition 6817	disease resistance, annual report,
protected cultivation 2159, 5159	phosphorus nutrition 6817	Netherlands 1135
Tunisia 4369 tunnels, plastic 7679, 8646	flavour 2783 dark treatment 5962	-scion relationships cell sap, composition, movement 5960
harvesting, book 5167	number, mulching, paper 6814	incompatibility 155
herbicides, injury, dinoseb 624	quality	water relations 5960
irrigation drip 3624	calcium nutrition 6817	squash 5960 Melon (cantaloup and musk) seed
flower, number 8664	growth substances, ethephon 2781 nitrogen nutrition 6817	composition, growth substances 1197
furrow 4448	plant nutrition 165	germination
salinity problems 4376	shade 6817	irrigation 4376
soil chlorine content 4448 sprinkler 3624, 4376, 4448	growth substances, ethephon 1202,	pollination, pollen mixtures 6833 temperature 7678
trickle 4376, 4448	2781	number, pollination, pollen mixtures
mulching 7670	mulching, paper 6814	6833
paper 7679 plastic coated 6814	set growth substances, ethephon 1202	production annual report, Belgium 4363
plastic 3680, 7679	nutrition 165	growth substances, ethephon 5231
weed control 7680-7681	pollination 4462	gynoecious lines 2006
content, flower bud, sex 8663	pollen mixtures 6833	potassium nutrition, phosphorus nutrition, nitrogen nutrition 6816
metabolism, photoperiodism 8754	growth substances, ethephon 2781	size, pollination, pollen mixtures 6833
packing, book 5167	mulching, paper 6814	storage 1185
photoperiodism, nitrogen, metabolism 8754	sugars content 8667	treatment cold
planting	planting, spacing 1994	cold resistance 7677
v direct sown 3680	volatile constituents 2008	plant water relations 7677
spacing 1994 pollination	Melon (cantaloup and musk) growth substances	hardening 6809 Pseudomonas spp., Colletotrichum
artificial 4462	endogenous 1199	lagenarium control 5952
pollen mixtures 6833	plant 1198	Melon (cantaloup and musk) soil
polyploid, induction 4442 proteins, content, diseased plants 7685	seed 1197–1198 flower	seedling emergence 4447 steaming, manganese nutrition 1998
seedling	sex ·	Melon (cantaloup and musk) varieties
emergence, soil temperature 4447	aminozide 1199	annual report, India 3607
raising, containers, types compared 7678	ethephon 1202, 5231 GA 1199	disease resistance, Fusarium oxysporum, i melonis 6806
soilless culture	fruit	Peninat Ein-Dor 3677
media 6815	composition, ethephon 2781	pest resistance 4443
nutrient solution 6815 storage, book 5167	quality, ethephon 2781 ripening, ethephon 1202, 2781	Venezuela 6807 Mentha spp.
sunburn, injury, prevention, whitewashing	set, ethephon 1202	genetics 6259
fruit 622	size, ethephon 2781	stomata, structure, development 5494
transport, book 5167 water relations	internode length GA 1199	Mercurialis spp., as weeds, artichoke, globe 3633
nutrition 2773	SADH 1199	Mercury
plant, seed treatment 7677	Melon (cantaloup and musk) leaf	determination, fruit trees and plants
weed control 623–624, 3679, 6778	area, planting, spacing 1994	3315
methods compared 7680–7681 Melon (cantaloup and musk) diseases	growth phases, nitrogen metabolism 8754	toxicity cucumber and gherkin 157
Alternaria brassicae 2770	Melon (cantaloup and musk) nutrition	vegetables, tissue culture 121
control, cultural methods 2770	cobalt, water relations 2773	Meridarchis scyrodes, Ziziphus spp., pests
varietal resistance 2770 Colletotrichum lagenarium	copper, water relations 2773 major elements	857 Merodon equestris
biological control 5952	fruit	bulbs, pests 7905
host proteins content 76%5	composition 6817	narcissus pests 7905
host proteins, content 7685 Fusarium gibbosum, incidence 8653	quality 6817 manganese	annual report, UK 3834 Mesembryanthemum
F. oxysporum	toxicity 1998	organic acids
incidence 8653	water relations 2773	metabolism
f. melonis 5965 control, soil treatment 8654	nitrogen 4452 deficiency 4452	salinity 8930 soil salinity 2941
host enzyme activity 5953	flower, sex 165	Mesembryanthemum leaf
varietal resistance 6806	fruit	senescence
F. solani, incidence 8653 mosaic 159	quality 165 set 165	organic acids metabolism 2941
Sphaerotheca fuliginea 5221	sources, compared 5214	soil salinity 2941

Subject Index		105
Mesembryanthemum propagation, cuttings,	Mint contd.	Molybdenum
treatment, growth substances 7886	insecticides	application
Mesembryanthemum seed sowing, direct, in pots, pelleted 2165	absorption from soil	foliar
treatment, pelleted 2165	DDT 7988	disease incidence, grapevine 7568 grapevine 7568
Mesembryanthemum soil, salinity, leaf,	lindane 7988	availability
senescence, organic acids, metabolism	residues	nitrogen nutrition
2941	essential oil	chrysanthemum 8589
Metarrhiza anisopliae, fungal parasite,	methomyl 8997	vegetables 8589
Mogannia hebes, sugar cane 9257 Metaseiulus occidentalis	phorate 8997	calcium content, pea 5273
predator on	plant, methyl-parathion 2320 soil	deficiency 865, 3299 cucumber and gherkin 7683
Eotetranychus willamettei, grapevine	plant absorption	growing in peat
1920	DDT 7988	chrysanthemum 4382
Tetranychus pacificus	lindane 7988	lettuce 4382
grapevine 1920	irradiation	tomato 4382
peach 81 Metasequoia spp., propagation, cuttings,	gamma rays 8998 mutation induction 6260	vegetables 7628 nitrogen nutrition, vegetables 7628
media 8845	irrigation	symptoms, cauliflower and broccoli
Meteorology, horticultural aspects 10	sprinkler	nutrition 1983
Mexico, grapefruit, growing 9076	essential oil 6264	enzyme activity
Mice, damage, herbicides treatment, fruit	plant composition 6264	grapevine 1112
trees and plants 1712	nitrogen, metabolism, wilted plants 4743	leaf, spinach 2747
Microbracon triangularis, parasite of,	nutrient absorption, phosphorus,	leaf analysis, cucumber and gherkin
Synanthedon tipuliformis, black currant, red currant 6677	deficiency 337 planting, spacing 6265	7683 nitrogen, fixation, pea 2814
Microcyclus ulei	taxonomy, chemotaxonomy 9000	nitrogen content, pea 5273
Brazil, rubber diseases 9214	terpenes 9000	nitrogen metabolism, grapevine 1112
control, rubber diseases 9214	biosynthesis 3025	phosphorus content, pea 5273
rainfall, rubber diseases 9214	tissue culture 8001 water relations, plant composition 4743	phosphorus nutrition, pea 5272-5273
Trinidad and Tobago, rubber diseases 9214	Mint diseases	proteins
Microdus dimidiator, biological control of,	Erysiphe cichoracearum 336	content, pea 209
Aegeria myopaeformis 3409	Leveillula spp. 336	metabolism, spinach 2747 soil, micro-organisms, radish nutrition
Microscopy, electron 4914	Phoma strasseri, host-pathogen	618
Microxyphiella hibiscifolia, on plant secretion, Hibiscus spp., diseases 4721	relationships 759 Puccinia menthae 6261	sources
Mikania scandens, as weeds, rubber 5642	Mint growth substances, essential oil,	chrysanthemum 8589
M. spp.	composition, MH 5499	vegetables 8589
as a cover crop, oil palm 6410	Mint leaf, secretory glands, physiology	toxicity 7683
as weeds oil palm 4075	3948 Mint nutrition 3946	cucumber and gherkin 7683 nitrogen nutrition
tea 4106	nitrogen 6265	chrysanthemum 8589
Millettia spp.	essential oil	vegetables 8589
sterols 4752	composition 6263	varietal responses, lettuce 7630
terpenoids 4752	content 6263	Momordica cabrei, medicinal properties
Miltonia spp., plant, variation 8934 Mimosa spp.	NPK 6262 phosphorus, deficiency, nutrient	3084
ground cover plants, coffee 7190	absorption 337	M. charantia
leaf, nyctinasty 6235	plant analysis, electron microprobe x-ray	varieties annual report, India 3607
Minettia spp., bacteria, vectors, Erwinia	analyser 2490	Pusa do Mausami 5948
amylovora, pear 5787 Mint	potassium, essential oil, content 6263 Mint pests	weeds, watermelon mosaic virus 5951
annual report, USA 324	Aphelenchoides spp., annual report, UK	Monarda fistulosa
breeding and selection 6260	4742	essential oil
terpenes, content 3945	nematodes, annual report, German	biosynthesis 9001–9002
carbon cycle 6319	Federal Republic 7064	composition 9002 content 9001
chlorophyll, content, soil moisture 6269 essential oil 4738	Mint soil cultivation, methods compared 6265	M. spp.
composition 761, 1415, 3027, 3031,	рН 7080	essential oil, content 4745
3033, 3946–3947, 5499, 6259, 9000	Mint varieties	mutants 4745
harvesting, time of 6265	essential oil	Monilia laxa, apricot diseases 63
irrigation, sprinkler 6264 nitrogen nutrition 6263	composition 7081 content 4744, 7081	M. linhartiana, quince diseases 4292
potassium nutrition 6263	Mirabilis spp., phytochrome, degradation,	Monilinia fructicola fruit dips, peach diseases 1832
varietal differences 7081	light, coloured 3736	heat treatment, peach diseases 1832
content 3946	Mistletoe	peach diseases 1832
irrigation, sprinkler 6264	growing on cacao, annual report, Ghana 7177	M. spp., cherry diseases 5022
nitrogen nutrition 6263 plant nutrition 6262	rubber 8184	M. vaccinii-corymbosi, blueberry diseases,
potassium nutrition 6263	Mites	annual report, USA 7490
soil pH 7080	aerial spraying, apple pests 7372	Monstera spp.
varietal differences 7081	biological control citrus pests 366	major elements, plant, analysis 1376
wilting 4743 diosphenolene, content 3032	fruit trees and plants 29	minor elements, plant, analysis 1376
extraction 8999	predaceous, population studies, apple	plant, composition, major and minor
insecticides, residues 8997	957	elements 1376
production 2328	review, Iran 1695	Morchella elata, nitrogen, fixing 8830
comparative trials, Tasmania 4744 production and trade, USA 2327	Mitochondria saponins, content, pea 7743	M. esculenta, growing, USSR 3830 Morning glory
terpenes	seed, germination, pea 656	light, interaction, growth substances
biosynthesis 1412	sterols, content, bean (Phaseolus) 2034	1339
content 1413, 3945	strontium, absorption, bean (Phaseolus)	photoperiodism, flower bud, initiation
growing	187 Mitragyna narvifalia alkaloide 2364	Morning glory flower
Brazil 2328 India 5500	Mitragyna parvifolia, alkaloids 2364 M. spp.	Morning glory flower bud initiation
media, compared 7605	alkaloids 2363	photoperiodism, nucleic acid content
peat 7605	content, monthly variations 5526	2201
harvesting 2328	M. tubulosa, alkaloids 9042	water relations, report, Australia 383
hybrids essential oil 6259	Mogannia hebes fungal parasites, sugar cane pests 9257	Morning glory growth substances endogenous 1339
composition 3033	Taiwan, sugar cane pests 7240	metabolism, GA 1339

Morning glory propagation	plastic contd.	casing contd.
cuttings treatment	cucumber and gherkin 4449	review 8819
growth substances	disease incidence, tomato 4570	time of 4596
GA 4632	grapevine, annual report, German	compost 2146, 4596
IBA 4632	Federal Republic 5072	amendments 700, 3827
Morrenia odorata, as weeds, citrus 3108	lettuce 2753	bark, annual report, UK 6483
Mortierella bainieri, mushroom diseases	marrow 156	farm by-products 3826
7835 Mosses	melon (cantaloup and musk) 3680, 7679	town compost 1311 comparative trials 700, 2147, 5379,
control	onion 3762	6953
lawns and sports turf 7921	raspberry 3524	crushed maize 8831
nurseries 743	red currant 7495	depth 263
tea, annual report, Kenya 7264	annual report, Yugoslavia 3517	temperature 7826
pot plants, annual report, Netherlands 4604	moisture, capsicum 6037	heat treatment, disease control 1312 pH 2149
medicinal properties, survey 775	temperature, capsicum 6037	pine bark 8821
Mozambique, crops, citrus 360	strawberry 1879, 2738, 4327, 6696,	preparation 701, 2148, 7828,
Mucor piriformis, pear diseases 4285	6699–6700, 7529, 7531	8821-8822
M. spp., fruit storage, fig diseases 1010	sugar cane, annual report, South Africa	rice straw 8822
Mulberry	7230 tomato 6071, 7779	sterilization, steam 699, 4601 sugar cane bagasse 8820
organic acids, content, seasonal variations 4163	annual report, USA 1935	supplements
pollination, fruit, development 7439	vegetables 4377-4378	calcium compounds 2149
Mulberry diseases	annual report	lipids, water content 6954
Fusarium solani 2057	Austria 114	proteins 8821
ringspot, vectors, Longidorus martini	Netherlands 1132	water content 6954
8451 Mulhorry fruit	watermelon 7682 weed control	town compost 8821 water content 6952
Mulberry fruit development 7439	melon (cantaloup and musk)	enzyme activity, organic acids, metabolis
parthenocarpy 7439	7680–7681	7839
Mulberry pests	tomato 3798	fungicides
Longidorus martini, vectors, ringspot	prunings, plant nutrition, tea 7267	injury, benomyl 3829
8451	rubber sheeting	residues, determination, benomyl 760
Maconellicoccus hirsutus, host reactions	tea 3266, 9274 weed control, tea 7268	use, benomyl, review 702 yield increase, benomyl 3829
5026 Pseudococcus comstocki, population	sawdust	genetics 7825
survey, sex traps 5565	fruit trees and plants 4191	growing 698
Mulberry propagation	tomato 7779	Netherlands 7827
cuttings	soil	afforestation sites 7511
treatment	conservation, tea 8269	containers
growth substances	moisture	compared 1310–1311
IAA 1011 IBA 1011	apple 6550 fruit trees and plants 4191	labour requirements 1310 Czechoslovakia 4597
sugars 1011	peach 4256	economics 4597
Mulching	tea, annual report, Malawi	work studies 4597
bark, weed control, container-grown	6454–6455	Indonesia 2146, 3824, 6121
plants 8853	strawberry 6700	growth studies, temperature 6957
bitumen	structure, peach 4256	harvesting, mechanical, equipment 784
capsicum 6889	temperature carrot 2895	heat treatment, virus control 7833 herbicides
spring harvesting, watermelon 3678 clover-grass mixture clippings	chicory 5176	fungus control
apple 936	fruit trees and plants 4191	Mycogone perniciosa
pear 936	tea 3266	aminotriazole 8824
clover-grass mowings, apple 1736	weed control, tea 7268	diuron 8824
equipment, mulch-chopper 1736 foam 4915	straw	paraquat 8824 Verticillium malthousei
foliage, plant nutrition, tea 7267	grapevine 5847 annual report, German Federal	aminotriazole 8824
fruit, pigments, capsicum 6037	Republic 5072	asulam 8824
grass cuttings, soil conservation, tea	weeds, peach 4256	dalapon 8824
8269	Murraya koenigii, alkaloids 8032	diuron 8824
hay, peach 1017	M. paniculata, coumarins, content 3973	paraquat 8824
lucerne hay, apple 5718 materials compared, tea, annual report,	Musa spp. flower, morphology 9128	simazine 8824 histology 5380
Kenya 7264	photosynthesis, leaf tearing 382	insecticides
ornamental, for landscape plantings,	water relations, leaf tearing 382	residues
annual report, UK 6483	Muscari	cap
paper	forcing 6165	demephion 8826
disease incidence, tomato 4570	species, comparative trials, German	dichlorvos 8826
melon (cantaloup and musk) 7679 onion 3762	Federal Republic 4669 Muscari varieties, comparative trials,	dimethoate 8826 irradiation
plastic coated	German Federal Republic 4669	gamma rays, cap, post-harvest 7841
melon (cantaloup and musk) 6814	Mushroom (see also Agaricus)	ionizing, disease control 604
strawberry 6699	anatomy 8829	labour requirements, annual report,
tomato 4559	annual report	Belgium 5906
vegetables 8747	Australia 5882	lead, determination 4389
tomato 6071 annual report, USA 1935	Irish Republic 1939, 6770	mannitol, biosynthesis, carbohydrates
wax coated, tomato 4559	Netherlands 1132, 6120, 8581 UK 5154, 6773–6774	metabolism 8827 organic acids, metabolism 7839
peat	breeding and selection 261, 6950	proteins, content, compost type 700
fruit trees and plants 4190	buildings	spawn
grapevine, annual report, German	moisture, loss, annual report,	granular 8818
Federal Republic 5072	Netherlands 5	production 8831
herbicide injury, onion 1251 mandarin and tangerine 3991	sterilization, nematicides 1313	storage 5378, 6951 storage 703
tea 3266, 9274	cadmium, determination 4389 carbohydrates 8828	cold 7841
weed control, tea 7268	metabolism, mannitol biosynthesis	temperature
pine bark 880	8827	growth studies 6957
plastic	casing	requirements 4598
cabbage 2758	amendments, cotton seed flour 4596	varieties and strains 7825
capsicum 4538, 6889	bark, annual report, UK 6483	testing methods 264
carrot 2895 chicory 5176	fumigation, methyl bromide 8823	watering 262
Cincory 5170	materials compared 7829	fluoridated water 4599

Subject Index		1053
Mushroom cap, production, micro-	Mustard flower contd.	Mycoplasma contd.
organisms, application 5381	bud initiation contd.	vectors contd.
Mushroom diseases	photoperiodism 331, 333	Macrosteles sexnotatus contd.
Dactylium dendroides, soil steaming 6956	proteins 3010 Mustard growth substances	'lisser' syndrome, hyacinth 290
Dieliomyces microsporus, biological	growth inhibition, 5-fluorodeoxyuridine	Matsumuratettix hiroglyphicus, white leaf, sugar cane 7243
control 7834	3942, 7074	Orosius argentatus, legume little leaf
Geotrichum candidum, soil steaming	nucleic acids, biosynthesis, 5-	278
6956	fluorodeoxyuridine 3942	Mycorrhiza
Mycogone perniciosa	responses, Triton X-100 7665	amino acids, metabolism, hazel 7435
Mycogone perniciosa control, herbicides 8824	Mustard pests Lipaphis erysimi 330	orchids 5459 relationships
soil steaming 6956	control 7971	cymbidium 310
Ostrachoderma spp., soil steaming 6956	Mustard plant, composition 6247	onion 6880
Pseudomonas agarici 2904 Pseudomonas tolaasii, biological control,	Mustard root, development, growth substances 7665	orchids 310
bacteria 2905, 3828	Mustard seed	seedling growth, citrus 7132 soil, arsenic content, apple 8373
review 7830	aroma 332	Mycosphaerella brassicicola
Trichoderma spp. 1312	composition, sinalbin 332	cabbage diseases, annual report, New
T. viride, soil steaming 6956	development 4736	Zealand 5152
Verticillium malthousei 4601, 8825 control, herbicides 8824	oil, composition 7981 fatty acids, metabolism 7969	cauliflower and broccoli diseases 1170 varietal resistance, brussels sprouts
soil steaming 6956	flavour 332	diseases, annual report, UK 4366
virus 7831–7832	glycerides, metabolism 7969	M. citri
annual report, Netherlands 6772	lipids, metabolism 7969	grapefruit diseases 3127
control 7831 heat treatment 7831, 7833	oil, composition 7981 production, pollination, bees 5899	orange diseases 3127 rootstock resistance, grapefruit diseases
Mushroom nutrition	proteins 2318	9092
carbon, nitrogen balance 8823-	ripening, steroids, content 7970	M. citrullina, watermelon diseases, annual
nitrogen, carbon balance 8823	Mustard seedling, chlorophyll, biosynthesis	report, USA 8585
Mushroom pests	Nuctord soil temperature disease incidence	M. fijiensis, banana diseases 4834
Heteropeza pygmaea 2150 integrated control 6955	Mustard soil, temperature, disease incidence 614	M. fragariae boron nutrition, strawberry diseases 5817
Lycoriella auripila 7838	Mustard varieties 6247	control, strawberry diseases 8482
insecticides, application, methods	Mutagens	copper nutrition, strawberry diseases
compared 4602	dimethylsulphate, tomato 7769	5817
Mycophila speyeri 2150 nematodes, population studies 6123	disease resistance, <i>Deuterophoma</i> tracheiphila, lemon 8060	manganese nutrition, strawberry diseases 5817
review 7837	ethyl methane sulphonate, peach 6635	strawberry diseases 1073, 1883–1884,
sciarid flies, biological control 7836	herbicides as, Bladex, tradescantia 1346	4324
Mushroom soil, sterilization, steam, disease	insecticides as, mevinphos, tradescantia	M. horii, citrus diseases 797
control 6956 Mustard	N-nitrosomethylurea, tomato 7769	M. ligulicola control, chrysanthemum diseases 6973
carbon dioxide, evolution, light 7073	Mutants	environmental factors, chrysanthemum
chlorophyll	induction	diseases 4626-4627
biosynthesis 3021	grafting, capsicum 2839	forecasting, chrysanthemum diseases
metabolism 3021	irradiation, gamma rays 8295	1333
enzyme activity 1954, 6009 light	leaf cuttings, <i>Kalanchoe</i> spp. 3903 <i>Mycetaspis personatus</i>	varietal resistance, chrysanthemum diseases, annual report, USA 1441,
far red 7980	mango pests 399	6129
red 7980	population studies	Mycosphaerella musicola
seed, ascorbic acid treatment 3013	Ficus spp., pests 811	banana diseases 379, 4834
enzymes biosynthesis 3012	mango pests 811 Mycogone perniciosa	annual report, Western Samoa 8122 M. pinodes, seed treatment, pea diseases,
degradation 3012	control, herbicides, mushroom diseases	annual report, UK 1934
extraction 2316-2317	8824	M. pomi, apple diseases 952
seedling 3012	mushroom diseases, annual report, UK	M. ribis
glucosinolate, biosynthesis 3020	6773 soil steaming, mushroom diseases 6956	black currant diseases, annual report, UK 3514
humidity, relative, water relations, culture solution osmotic potential 8985	Mycophila speyeri, mushroom pests 2150	varietal differences, black currant diseases
light	Mycoplasma 17, 1673	4308
carbon dioxide, evolution 7073	control	varietal resistance, red currant diseases
far-red	antibiotics 278	4308
enzyme activity 7980 responses 334	lethal yellowing, coconut 5616 Opuntia spp. 1373	M. spp. banana diseases, annual report, Australia
red, enzyme activity 7980	ornamental plants 5410	5600
nucleic acids	cross protection, tomato 5349	grapefruit diseases 3132
biosynthesis, growth substances 3942	fungicides, benomyl, Santalum spp.	orange diseases 3132
flower bud, initiation 3010 oil, biosynthesis, seed, development 4736	3038 review, sandal spike, <i>Santalum</i> spp.	varietal resistance, banana diseases 1540 Myllocerus subfasciatus, resistance, eggplant
photoperiodism, flower bud initiation	2329	pests, annual report, India 3607
333	histological studies	Myoporum spp., propagation, cuttings 2167
phytochrome	pear, annual report, German Federal	Myosotis spp., weed control, annual report,
chlorophyll	Republic 6504 proliferation, apple 4984	German Federal Republic 6959 Myrcia spp., growing, tropical America
biosynthesis 3021 metabolism 3021	indicator plants	377
pollination, bees, seed production 5899	Datura stramomium 278	Myrciaria jaboticaba, fruit, composition
proteins	Vinca spp. 290, 6270	7273.
biosynthesis, seed, development 4736	morphology, peach 2641 plant diseases, review 7299	M. spp., growing, tropical America 377 Myricaceae
flower bud, initiation 3010 steroids, content, seed, ripening 7970	review 889, 5410, 7298	essential oil
tissue culture, cotyledon 6804	fruit trees and plants, diseases 890	chemotaxonomy 9003
water relations, relative humidity, culture	structure, lavender diseases 762	composition 9003
solution osmotic potential 8985	transmission, coconut 4054	taxonomy, essential oil 9003
weed control 3935	vectors 17 dodder, sandal spike, Santalum spp.	Myrobalan defoliation, potassium iodide, magnesium
annual report, German Federal Republic 7964	6270	chlorate, calcium cyanide 6512
Mustard diseases, cabbage yellows, incidence	leafhoppers, green petal, Primula spp.	as a rootstock
614	4634	damson 1040
Mustard flower	Macrosteles sexnotatus aster yellows	peach 76, 1014 , plum 1040
inhibition 5491	gladiolus 290	water relations, leaf, carbohydrates,
nucleic acids 3010	hyacinth 7007	content 1852

1054		Horticultural Abstracts 1973 Vol. 43
Myrobalan contd.	Narcissus bulb contd.	Nectarine diseases
weed control, nurseries 7316	heat treatment 1690	Colletotrichum dematium, pathogenicity 8515
Myrobalan fruit, ripening, date, varietal differences 521 Myrobalan growth substances	lifting, frequency 7011 production, varietal differences 8898 size, planting, spacing 7011	Sclerotinia fructicola, post-harvest dips 7481
endogenous, seed 2523	storage	Nectarine flower, bud development, frost
responses, chlormequat 8329	temperature 4663	resistance 7440
Myrobalan leaf, carbohydrates, content 1852	flowering date 3872 Narcissus diseases	Nectarine fruit, thinning, chemical, time of, seed development 3484
Myrobalan propagation, cuttings, treatment,	annual report, USA 1315	Nectarine propagation 26
growth substances, IBA 1850	arabis mosaic, shoot-tip culture 7012	Nectarine seed, development, fruit, thinning
Myrobalan root growth	broad bean wilt 7904 cucumber mosaic 7904	3484 Nectarine varieties 1013
soil moisture 6656	degeneration, shoot-tip culture 7012	Cherokee 4246
soil temperature 6656 Myrobalan rootstocks	Rosellinia spp., alternative hosts 7013	Early Sungrand 505
-scion relationships	tobacco rattle 7904 tomato ringspot 2254	Fantasia 4247 Flavortop 4246
leaf, carbohydrates, content 1852 water relations 1852	Narcissus flower	F100-62 4247
Myrobalan seed	cation exchange capacity, composition 7874 •	Independence 505 Italy 3460–3463
germination, metabolic processes 2523 treatment, stratification, metabolic	cut	Moon Grand 505
processes 2523	fluorine injury, tap water 2913	Nectared 8 4246
Myrobalan soil	vase life 4664 number	Nectared 9 4247 New Zealand 4245
moisture, root growth 6656 temperatue, root growth 6656	bulb size 7011	register, USA 3356, 4156
Myrobalan varieties	planting, spacing 7011	review, Italy 6625
fruit, ripening, date 521 register, USA 4156	Narcissus growth substances, endogenous, leaf, translocation 706	Stark Redgold 4246 Stark Sunglo 505
winter hardiness 521	Narcissus pests	Sun Grand 4247
Myrothecium roridum, varietal resistance, eggplant diseases 6050	Ditylenchus dipsaci 6186	USA 1012
Myrtillocactus spp., edible fruits 822	Eumerus strigatus 7905 E. tuberculatus 7905	USSR 7440 Nectria galligena
Myrtus spp. essential oil, terpenes, content, leaf colour	Merodon equestris 7905	apple diseases 5006
4746	Xiphinema americanum, vectors, tomato	annual report
growing, tropical America 377	ringspot 2254 Narcissus plant, cation exchange capacity,	Netherlands 5697–5698 UK 903, 4172, 8318
Mythimna phaea biological control, sugar cane pests 8234	composition 7874	fruit storage, applè diseases 5751
damage, sugar cane pests 8234	Narcissus propagation	host benzoic acid, content, apple diseases
forecasting, light traps, sugar cane pests 8234	shoot-tip culture, virus-free plants 7012	5755 wound healing, apple diseases 4207
M. spp., sugar cane pests, annual report,	Narcissus varieties	N. radicicola
South Africa 7230 Myzus cerasi, aerial spraying, cherry pests	bulb, production 8898 pollen viability 8899	control, lily diseases 7902
8438	Nasturtium	rhubarb diseases 8750 Nematicidal principles, compositae 283
M. persicae	cytology 4646	Nematicides
brussels sprouts pests 147 capsicum pests 4540	light, intensity, measurement 1675 Nasturtium growth substances, responses,	aldicarb
annual report, German Federal	dwarf plants, IAA 4647	application methods compared
Republic 8579 control	Natsudaidai storage	rose 7948
chrysanthemum pests 6973, 6975	cold	sugar cane 7246 pest population increase, tomato 7800
cut flowers, chrysanthemum pests 6976	fruit acidity 6361	application, equipment 4131
peach pests 7448	carbon dioxide evolution 6361	Basamid, pest population increase,
lettuce pests 1158 peach pests, annual report, Australia	controlled atmosphere carbon dioxide concentration 7154	vegetables 8811 Ciba 14421, application, methods
5693	chilling injury 6360	compared, litchi 6373
radish pests 1180	disease incidence 6360	dazomet, seedling, emergence, onion
brussels sprouts pests 1697	fruit, composition 6360 temperature 7154	DBCP
chrysanthemum pests 1697	Natsudaidai diseases	application '
vectors potato virus Y, capsicum pests 6040	Penicillium spp., fruit storage 6360 Xanthomonas citri, pathogen survival	methods compared litchi 6373
tobacco etch, capsicum pests 6040	5561	sugar cane 7246
virus bean (<i>Vicia</i>) pests 6846	Natsudaidai disorders, button browning, fruit storage 7154	banana pests 828
pea pests 6846	Natsudaidai fruit	DD, application, methods compared, sugar cane 7246
virus, vectors, cauliflower and broccoli pests 1168	acidity, storage temperature 6361 amino acids, content 7157	Di-Trapex
virus vectors, beet western yellows, lettuce	colour, storage, controlled atmosphere	injury, peach 4258
pests 1969 Nacoleia octasema, banana pests, annual	7154 composition 7157	pest population increase, vegetables 8811
report, Western Samoa 8122	storage 6360	EDB, application, methods compared,
N. octosema, banana pests 380 Narcissus	controlled atmosphere 7154	sugar cane 7246
annual report	flavour, storage, controlled atmosphere 7154	interaction, fungicides, lawns and sports turf 2266
Netherlands 2219, 6127	organic acids	Mocap
UK 732–733, 2153, 3834, 3871, 3874, 7907	content 7157 seasonal variations 4020	application, methods compared, litchi 6373
flowering, date, bulb, storage temperature	sugars	injury, varietal differences,
3872 forcing 6165	content 7157 seasonal variations 4020	chrysanthemum 6977 Nemacur
bulb, storage temperature 3872, 4663	Naupactus bondari, cacao pests 3185	application, methods compared, lemon
temperature 4663 planting	N. spp., cacao pests 3185 Nectarine	3133
spacing 7011	annual report, Italy 6507	granular, soil incorporation, tomato 1290
systems 7011 time, Italy 4662	breeding and selection, annual report,	persistence, soil 446
pollen, viability, varietal differences 8899	frost, resistance, flower bud development	seed, treatment, vegetables 2394 translocation 446
Narcissus bulb	7440	okra 2394
development 8897	growing, Italy 503	Nemagon, injury, rose 1392

auject index		103
ematicides contd.	Netherlands contd.	Nitrogen contd.
various application -	trees and shrubs, growing, economics 7031	absorption <i>contd</i> . orange 6342–6343
methods compared, sugar cane,	vegetables	peat pH, chrysanthemum 6145
annual report, South Africa 7230	growing economics 6775	soil management, apple, annual report, Netherlands 5697
sub-surface, annual report, UK	under glass 6775	water table, <i>Vaccinium</i> spp. 6686
2487	New journals	zinc sources, orange 3121
Vorlex, injury, strawberry 8514 Vydate, application, methods compared,	Annali dell'Istituto Sperimentale per l'Agrumicoltura 4118	alkaloids, content, poppy 7112 aluminium toxicity, pea 7728
rose 7948	Arquivos da Universidale Federal Rural	ammoniacal concentration, vegetables
ematodes	do Rio de Janeiro 4911	1968
-bacteria disease complex 445	Biochemical Society Transactions, formerly Proceedings of the	ammonium toxicity, chrysanthemum nutrition 2189
almond 3367	Biochemical Society 6471	apical dominance, bean (Phaseolus) 869
book 2484	bulletin de l'Académie des Sciences Agricoles et Forestières 8281	application foliar
control book 2484	Journal of Turkish Phytopathology 8282	apple 2571
cultural methods, review 7300	Malaysian Agricultural Research 5669 Mushroom Journal, formerly MGA	apricot 2612 Colletotrichum coffeanum incidence,
soil steaming, apple pests 6562	Bulletin 4119	coffee nutrition 1579
-fungi disease complex 445	Nouvelles Maraîchères et Vivrières de l'INRA aux Antilles 5668	grapevine 8552
tomato 2877	Plant Science Letters 7275	orange 6342-6343 rhizosphere micro-organisms,
host-parasite relationships 445	Scientia Horticulturae 7276	population studies, capsicum
resistance 3316 integrated control, tree fruits, annual	New Zealand, Phaseolus angularis, growing 5976	6038 strawberry nutrition 1880
report, Canada 2515	Nezara viridula	tea 3273
review 445 France, vegetables 2741	control, <i>Crotalaria</i> spp. planting,	irrigation, sprinkler, apple 947
-virus, disease complex 445	macadamia pests, report, USA 6324 peach pests, annual report, USA 4945	methods compared cucumber and gherkin 5950
virus vectors, review 2502	Nickel, leaf analysis, standards, fruit trees	sugar cane 1630
dematospora coryli, pistachio diseases 6653	and plants 2496 Nicotiana spp.	time apple 4972
emesia seed	diseases, pea mild mosaic 4502	bean (Phaseolus), annual report,
sowing, direct, in pots, pelleted 2165 treatment, pelleted 2165	essential oil, composition 4644 flower, formation, minor elements,	Zambia 8586 eggplant 6898
Temophila spp.	nutrition 1343	frost resistance, apple 4971
seed	nutrition	fruit, disorders, apple 947
germination inhibition	boron, application, foliar 1343 manganese, application, foliar 1343	mandarin and tangerine 8070, 9084–9085
light	zinc, application, foliar 1343	sugar cane nutrition 1627
blue 3861 far-red 3861	seed, production, minor elements, nutrition 1343	ascorbic acid, content, lemon 3113
reversal, light, red 3861	water relations, minor elements, nutrition	availability, cucumber and gherkin 117
<i>leomillspaughia amarginata</i> , as weeds, citrus 6340	1343 Nigella flower	bud-break, apple 4973 calcium content, blueberry 7515
lepeta spp., lactones 3028	bud initiation 3816	cane, juice quality, sugar cane 8202
Tephantis serinopa	development 3816	carbohydrate, metabolism, apple 39
coconut pests 3190, 9157 annual report, Sri Lanka 7185	Nigella spp., cytology, vegetative apices, floral apices, petals 2855	carbon balance, mushroom 8823
Vercum spp., growth substances, dwarfing,	Nigeria	resistance
MH-30 1384 erine	carrot, growing 5371 Rhaphia hookeri, growing, annual report,	lawns and sports turf 304 Stenotaphrum spp. 2179, 5448
annual report, Netherlands 6127	Nigeria 9181	content
cytology 6182 flowering	Nigrospora spp., epiphyte, pecan 2653 Nipa fruticans, flower, morphology 3953	biennial bearing apple 970–971
bulb storage	Niphadolepis alianta	mango 3239
relative humidity 7906	coffee pests 1583 tea pests 4110	boron nutrition, spinach 126 copper nutrition, coffee 393
time 7906 growing	Nitralin, injury, cucurbits 623	disease resistance, Deuterophoma
in greenhouses 3873	Nitrates	tracheiphila, citrus 3131
Netherlands, for production throughout the year 7906	absorption growth substances, amino acids, pea	flower, peach 6631 flower bud, sex, melon (cantaloup and
taxonomy, cytotaxonomy 6182	4509	musk) 8663
erine bulb storage 3873	nitrogen nutrition, apple, report, Australia 3344	frost resistance, citrus 3131 fruit
relative humidity 7906	biosynthesis, red light, Salvia sclarea	development, plum 6663
time 7906 treatment, fungicides, benomyl 5433	7085 content	peach 6631 phosphorus nutrition, capsicum
erine diseases	apple, nitrogen nutrition, report,	8753
Fusarium moniliforme, f. subglutinans,	Australia 3344	potassium nutrition, capsicum 8753
control 5433 virus, annual report, Netherlands 6961	citrus, leaf, NPK nutrition 2384 cucumber and gherkin, nitrogen	tomato grafted on potato 8796 growth substances, cauliflower and
erine flower	nutriton 2870	broccoli 7660
bud initiation 7906 cut, fluorine injury, tap water 2913	fruit papaw 3247	herbicides, simazine, apple 968 leaf
Verium spp.	ripening, papaw 3248	apple 6553
glycosides 3005	okra, fruit, nitrogen nutrition 2091 spinach, nitrogen nutrition 1957	boron nutrition, guava 8161 drought, sugar cane 2474, 8200
propagation, cuttings 2168 etherlands	tomato, nitrogen nutrition 2870	flooding, sugar cane 2474, 8200
capsicum, growing 4530	determination, spectrophotometric,	nutrient source, Agrostis spp. 3893
capsicum varieties, comparative trials,	spinach 7619 Nitrite	phosphorus nutrition, capsicum 8753
carnation	toxicity	potassium nutrition, capsicum 8753
economics 6137 growing, economics 8854	nutrient solution, pH, vegetables 5893 vegetables 5893	rootstocks, plum 2657 seasonal variations
fruit trees and plants, economics 4150	Nitrogen	apple 6554
horticultural crops, economics 5672	absorption leaf	peach 508
nerine, growing, 7827 nerine, growing, for production	apple 2571	soil management, peach 1017 soil sterilization, tomato 240
throughout the year 7906	apricot 2612	soilless culture, grapevine 6749
tomato, growing, disease incidence 6087	mandarin and tangerine 9084-9085	varietal differences, apple 6554

Nitrogen contd.	Nitrogen contd.	Nitrogen contd.
content contd.	flower contd.	leaf analysis contd.
manganese nutrition, orange 1481	sex cucumber and gherkin 166	orange 1478, 2384 pea 6005
phosphorus nutrition		peach 1018, 3472
citrus 2384	melon (cantaloup and musk) 165 size, Zantedeschia spp. 2950	petiole analysis compared, grapevine
orange 1478	stem length, rose 7946	8551
fruiting, fruit trees and plants 5705	flower bud	rubber 1616
herbicides, simazine, strawberry 545	development, banana 4041	seasonal variations, annual report, Ind
potassium nutrition, tomato 6909	fruiting potential, grapevine 3578	1657
report, German Federal Republic	initiation	v soil analysis, coffee 3195
8284	apple 947, 8368	soil management methods compared,
seasonal variations	banana 4041	apple 8358
peach 508	black currant 1860	sugar cane 412, 1630, 8213
tomato 6909	tree fruits 2530 flowering	leaf litter analysis, cacao 7181
storage, grapevine 5830	date	light absorption, apple 5724
potassium nutrition, citrus 2384	chamomile 3972	magnesium nutrition, viburnum, annual
rhizome, bud development, blueberry	chrysanthemum nutrition 718	report, USA 6129
1064	mandarin and tangerine 8070	metabolism
root, fruit, ripening, grapevine 1123	frost resistance, black currant 8485	apple, annual report, UK 903
seasonal variations apple 49	fruit	molybdenum nutrition, grapevine 11 phosphorus, grapevine 7581
blueberry 535	amino acids, content, apple 7370	photoperiodism
shoot	ascorbic acid, content, apple 8415 bunch size, grapevine 8552	capsicum 8754
root temperature, chrysanthemum	colour	melon (cantaloup and musk) 8754
8863	apple 6605, 8368	orange 8754
seasonal variations, apple 6554	mandarin and tangerine 8070	wilted plants, mint 4743
varietal differences, apple 6554	tomato 7786	nitrate accumulation
tuber, tomato grafted on potato 8796	composition	cucumber and gherkin 2870
water deficiency, apple 4962	apple 6557, 6605, 8378	spinach 1957, 2746
water relations, apple 38	ascorbic acid, melon(cantaloup and	tomato 2870
zinc nutrition, orange 1481	musk) 165 blueberry 6690	nutrient availability, tea 3274 nutrition, glycoside, content, tomato 24
controlled atmosphere storage, fruit 3361 cucumber and gherkin 6826	mandarin and tangerine 8070	petiole analysis, leaf analysis compared,
darkness, tomato 5356	orange 1478–1479, 7159	grapevine 8551
deficiency	papaw 842, 1607	phosphorus absorption
coffee 9166	tomato 7786, 8805	apple 466
glycosides, content, tomato 8794	flavour	peach 466
leaf analysis, tea, annual report, Sri	orange 7159	phosphorus content, tea 7267
Lanka 8262	raspberry 6682	phosphorus nutrition
melon (cantaloup and musk) 4452 symptoms	maturity, peach 8456 number, apple 8368	mandarin and tangerine 9083 pea 7728
coffee 3197–3198	quality	pineapple 9199
ginger 5492	grapevine 8552	photosynthesis
tomato 4567	juice content, orange 6342-6343	citrus 9100
tomato 4567	melon(cantaloup and musk) 165	tomato 6907
determination, methods 8289	orange 7159	physiological responses 4
disease development	set	placement
Phomopsis theae, tea 5662 Rhizoctonia solani, Fusarium solani,	black currant 8485 melon(cantaloup and musk) 165	apple, annual report, Netherlands 5697
bean (Vicia) 4489	size	methods compared, root growth, appl
disease incidence	blueberry 7515	8377
Botrytis cinerea, tomato 5345		plant
capsicum 2846	orange 1478-1479 peach 508	composition
Cercospora coffeicola, coffee 9167	plum 7473	amino acids, apple nutrition 49
Helminthosporium incurvatum, coconut	tomato 7786	essential oil, mint, annual report,
9149	storage life, apple 6557	USA 324
lawns and sports turf 7023, 8918 Phytophthora infestans, tomato 5345	grass colour, lawns and sports turf 304 host-pathogen relationships, Fusarium	manganese content, tomato 4563 plant analysis, sugar cane 3257, 6437
disease resistance	martii, pea nutrition 2055	planting, spacing, onion 8739
Aster spp. 6992	insecticides, sugar cane 7251	potassium absorption
Valsa mali, apple 475	interaction, growth substances, bean	apple 466
disorder incidence, apple 4972	(Phaseolus) 7718	peach 466
enzyme activity	leaf	potassium content
apple 7398	abscission, blueberry 8495	persimmon 4029
leaf, sugar cane 8251 shoot, pea 3741	amino acids, content, tea 3289 chlorophyll, content, mandarin and	plum 7473 potassium imbalance
essential oil	tangerine 6352	coffee 9167
composition, mint 6263	colour	stem length, rose 2294
content	capsicum 8752	potassium nutrition
chamomile nutrition 3054	coleus 6133	mandarin and tangerine 9083
mint 6263	composition	pineapple 9199
fixation	apple 4977	plum 7473
cobalt nutrition, pea 2814	ascorbic acid, cabbage 143	proteins, content, bean (<i>Phaseolus</i>)
molybdenum nutrition, pea 2814 fixing	protein, cabbage 143 tea 6466	nutrition 5242 pseudostem, girth, banana 4041
Morchella elata 8830	fall, apple 4973	relative humidity, apple 7351
Pleurotus ostreatus 8830	pigments	replanting, peach 1821
root nodule bacteria, enzyme activity,	apple 5724	requirements
pea 1229	tea 3287	light intensity, tomato 6908
flower	size, blueberry 8495	vegetables 4381
calyx splitting, carnation nutrition	leaf analysis	respiration
1325	apple 3402, 8375	leaf, tea 3281
colour, rose 2294 cut, life, chrysanthemum nutrition 718	black currant nutrition 1860 carrot 6109	root, tea 3281
number	chrysanthemum 7856	sex expression, spinach 127 soil analysis
apple 8368	citrus 1484	cacao 7181
rose 7946	coffee 1570, 3198	rubber 1616
zinnia 7892	grapefruit 2384	soil management methods compared,
quality	lemon 2384	apple 8358
chrysanthemum nutrition 718	mango 5631	tomato 4560
rose nutrition 748	oil palm 7214	soil moisture, apple 7351

Dudjeet index		10
Nitrogen contd.	Nucleic acids	Nursery stock contd.
sources	applied	defoliation contd.
ammonia, vegetables, nutrition, annual	pollen	growth substances 6511, 7314
report, UK 1934	germination	ethephon 5024
aqueous ammonia, brussels sprouts, annual report, UK 1937	apple 2651 pear 2651	surfactants 6510–6511, 7314 diseases
cabbage 119	biosynthesis	Agrobacterium rhizogenes 7318
chlorosis, Vinca spp., nutrition 1442	actinomycin D, bean (<i>Phaseolus</i>) 7719	A. tumefaciens 7318
compared	artichoke, jerusalem, report, Australia	Phytophthora cinnamomi 7318
Agrostis spp., 3893	3602	Rossellinia necatrix 7318
apple 4972, 8378	bean (Vicia) 3725-3726	Sclerotium rolfsii 7318
annual report, Netherlands 4956	diseased leaves, cucumber and gherkin	overwintering, annual report, Canada
report, Australia 3344	8662 ethylene, pea 2065	8836 production
bean (Phaseolus) nutrition 172	flower bud, initiation, <i>Ipomoea</i> spp.	economics 5702
cucumber and gherkin 2870 horse-radish 8972	3849	refresher course 4612
mandarin and tangerine 7134	growth substances, pea 221	propagation, methods, review 2166
melon (cantaloup and musk) 5214	inhibition, growth substances, pea	root pruning, apple, annual report,
nursery stock 267	3751	Netherlands 2516
orange 9087	inhibitor, virus, control 888 onion 5314	storage, cold, annual report, UK 8318 weed control 2986, 4924
spinach beet 5904	plant, salinity, tomato 6927	Nutmeg
strawberry 1880, 7534	pollination, cucumber and gherkin	as medicinal plants 7975
sugar cane 8216	3693	seedling, sex, determination, colorimetri
tea 6457, 8270, 9276	soil salinity	test 756
annual report	Luffa cylindrica 2838 okra 2838	Nutrient absorption
Malawi 6454 Sri Lanka 8262	virus, host, reactions, bean (Vicia) 200	major elements, orange 8069 minor elements, orange 8069
tomato 1286, 2870, 3800	composition, irradiation resistance, pea	nutrient solution, tomato 8774
fruit, disorders, apple 947	1241	review 7304
leaf, composition, sulphur, lawns and	content	soil
sports turf 6193	cold resistance, Albizzia spp. 1398	amendments, tomato 8774
leaf quality, tea 9275	growth substances, pea 4500 plant, salinity, tomato 6927	Compaction, sugar cane 8212 Nutrients
leek 119	seedling, growth substances, lettuce	absorption 3296
liquid, container-grown plants 2170	6789	lunar materials, vegetables 4380
minor elements	extraction	planting, apple 1773
availability chrysanthemum 8589	artichoke, jerusalem 4398	application, fruit, apple, annual report,
vegetables 8589	coffee 3208 hazel 3337	Belgium 902
toxicity	flower bud, initiation, mustard 3010	determination, neutron activation
chrysanthemum 8589	metabolism	analysis, Datura spp. 6293
vegetables 8589	carrot 226	fruit, grapevine 7595
nutrient absorption, tea 6457	ethylene, pea 4512	fruiting, fruit trees and plants 5705
nutrient availability, tea 3275	etiolated leaves, bean (<i>Phaseolus</i>) 5983	herbicides, pea, bean (<i>Phaseolus</i>),
respiration, apple 1771	growth substances cucumber 151	spinach 4485 molybdenum nutrition, pea 5273
root composition, tea 8270	kale 151	nutrient solution, concentration,
root growth, tea 8270 slow-release 3	kinetin, tissue culture, carrot 1307	grapevine 6749
melon (cantaloup and musk) 5214	pea 6012	phosphorus nutrition, pea 5273
tomato 5214, 7785	iron, tissue culture, carrot 1307	seasonal variations, citrus 3114
urea formaldehyde 267	leaf, development, pea 5289	varietal variations, citrus 3114 Nutrition
soil pH, tea, annual report, Sri Lanka	light, pea 6012 pea 226	deficiency 881
8262	phosphorus, tissue culture, carrot 1307	diagnosis 881
soilless culture, blueberry nutrition	plant nutrition, pea 6870	plant histology 5684
4319	translocation, parsley, tissue culture 4734	nitrogen 4090
spinach 119 sulphur-coated, watermelon 3683	Nucleotides, interaction, growth substances,	plant
transpiration, coffee 9171	pea 1237 Numicia viridis	leaf light
urea, grapevine 8552	aerial spraying, sugar cane pests 8241	absorption, squash, annual repor
sucrose, content, sugar cane 1626	parasites, sugar cane pests 8241	USA 600
toxicity	varietal resistance, sugar cane pests 7248	reflection, squash, annual report,
cucumber and gherkin 2870	Nursery stock	USA 600
fruit, drop, marrow nutrition 1203	annual report, UK 3347, 4605 cold, injury, annual report, UK 8318	transmission, squash, annual report, USA 600
strawberry 7534	container-grown	plant analysis, electron microprobe x-ra
tomato 2870, 3800	media	analyser 2490
translocation, mandarin and tangerine 9084–9085	annual report	requirements 881
winter hardiness	Canada 3370	studies, Soxhlet glassware technique
blueberry 7515	UK 6128 USA 1315	4921 toxicity, plant histology 5684
cherry 6617	temperature, container type 3305,	Nutritional value
holly 2311	6214	amino acids, vegetables 3628
pyracantha 2311	nutrition 267	Benincasa hispida 5944
Nodostoma subcostatum, banana pests 380	annual report, UK 6128	date 7162
Nodulisporium indicum, mango diseases 4869	winter hardiness, container type, holly 6214	fatty acids, walnut 5069 nitrates, vegetables 606
Nopalea spp., edible fruits 822	containers	organic acids, grapevine fruit 1894
Norway, flowers, cut, production 5387	evaporation, recording apparatus,	plants, review, report, German Federal
Notholirion spp., tuliposides 8908	lysimeters 4128	Republic 8284
Notocactus spp.	plastic, pots 2493	proteins
flower, bud initiation, temperature,	types compared	beetroot 5172
photoperiodism 6200 photoperiodism, temperature, flower bud,	media temperature 3305 soil temperature 439, 8297	pea 6018 sugars, grapevine fruit 1894
initiation 6200	wood baskets, preservatives,	vegetables 4387
NPK	rhododendron 6223	vitamins
application, foliar, strawberry 5816	defoliation	beetroot 5172
fruit, composition, peach 6629	annual report	grapevine fruit 1894
leaf analysis, strawberry 6702	German Federal Republic 7310, 7844	spinach beet 8596 Nuts
pest resistance, scale insects, orange 2397 soil compaction, sugar cane 8212	UK 8316	annual report, USA 25
soil composition, strawberry 6703	chemical 5716	nutrition, boron, deficiency 6499

1058		Horticultural Abstracts 1973 Vol. 43
Nuts contd.	Oil palm contd.	Oil palm nutrition contd.
planting	cover crops contd.	magnesium contd.
high density, Switzerland 904 survey, Switzerland 904	Mikania spp. 6410 Pueraria phaseoloides 7209	review 4876 manganese, leaf analysis 7214
seed, oil, biosynthesis 3336	drought, phosphorus, absorption 4071	nitrogen 3244, 4070
varieties	economics 9182	leaf analysis 7214
Hungary, book 3355	growing	review 4876
register	as an intercrop, cacao, annual report, Nigeria 4035	phosphorus 3244, 4070 review 4876
Canada 5670 USA 5670	marginal land, Ivory Coast 2456	potassium 3244, 4070
Oak	Papua New Guinea 7206, 7214	review 4876
annual report, Netherlands 4604	Sri Lanka 9183 Venezuela 1597	sulphur deficiency 841
planting, WANE system, roadside plants 3908	growth studies, Papua New Guinea 7210	leaf analysis 3173, 7214
Oak leaf-mould, media constituent, physical	harvesting, time of, oil content 2459	Oil palm pests 1696
properties 7291	herbicides	birds, control, review 4830 Cephaloleia spp. 5637
Ochrosia vieillardii, alkaloids, content 2365	application, equipment 2457 injury	Coelaenomenodera elaeidis 5638
Ocimum basilicum, seed, mucilage, sugars	Daconate 1601	population studies 4877
3034	mixtures 8166 MSMA 4067	insects, control, review 1532 monkeys *8168
O. canum, essential oil, fungicidal properties 6256	paraquat 4067	Parasa pallida, Ivory Coast 9188
O. sanctum	phenolic compounds, content, root,	P. viridissima, Ivory Coast 9188
leaf	disorder resistance, sudden dieback	review, Malaya 5636
extracts for seed treatment 8011	6412 phosphorus, absorption, drought 4071	rodents 7170 Sagalassa valida 9189
for seedling treatment 8011	photosynthesis, seedling variation 9184	Tetranychus pieroei, boron nutrition
medicinal properties 3974	planting, soil, preparation, windrowing	6411
O. spp. essential oil, nutrition, annual report,	1599 production and trade 9182	various, Togo 5599 Oil palm propagation
Sarawak 3933	West Africa 5634	embryo, tissue culture 1605
stomata, structure, development 5494	products and by-products, debris ash, as a	shoot-tip, tissue culture 1604
Odoiporus longicollis, banana pests 380 Odontoglossum spp.	fertilizer 9190 seedling	Oil palm root growth, tissue culture 2458
diseases, ringspot, annual report, German	production 8165	structure, disorder resistance, sudden
Federal Republic 8837	nutrition 7211	dieback 6412
leaf, anatomy 4680 pollinaria 312	raising, plastic bags 7211 selection 8165	Oil palm seed germination 9125
Oecophylla spp., cacao pests, annual report,	species, disorder resistance, sudden	chamber 7208
Ghana 7177	dieback 6412	water content 9185
Oenothera spp.	spraying, equipment 5639	water movement 9185
flower, amino acid, biosynthesis, pollination 6998	temperature 2456 c. tissue culture	Oil palm soil cultivation, weed control, sulphur
pollination, amino acid, biosynthesis	root 2458	deficiency 841
6998	shoot-tip	management, methods compared 6410
taxonomy 266 Oidium chrysanthemi, chrysanthemum	growth substances, treatment 1604, 6413	nutrients, Papua New Guinea 7211, 7214
diseases 6229	media 6413	types, Surinam 9186
O. erysiphoides, f gerberae, gerbera diseases	water relations 2456	Oil palm varieties
2200 O. farinosum, apple diseases 5734	weed control 4067–4068, 4075, 8134, 8166	Africa 1598 comparative trials, Costa Rica 5635
O. heveae	cover crops 7209	Oil plants, Indonesia 1674
clonal susceptibility, rubber diseases	economics 2457	Oils, book 355
8182 rubber diseases, book 6425	Imperata spp. 1600 nurseries 1601	Okra annual report 1935
seasonal susceptibility, rubber diseases	review 8121	India 3607
8182	Oil palm diseases	St. Lucia 8577
secondary leaf fall, prevention, rubber diseases 8183	Fusarium oxysporum, f. elaeidis, resistance, breeding and selection	USA 4368, 8585 carbohydrates
O. mangiferae, mango diseases, annual	8164	content
report, India 4034	Marasmius palmivorus, control 6384	photoperiodism 8749
O. spp.	various, Togo 5599	temperature 8749
clonal resistance, rubber diseases 7222 control 8305	Oil palm disorders "marchitez" disease 9189	carbon dioxide, concentration, fruit, dehiscence 7466
cucumber and gherkin diseases 160	sudden dieback	chlorophyll
mango diseases 7203	resistance	content, diseased plants, yellow vein
okra diseases 160 Oil	root composition 6412 root structure 6412	mosaic 6887 degradation, yellow vein mosaic virus
fruit	various, Togo 5599	1259
avocado 359	Oil palm fruit	enzyme activity
Styrax officinalis, composition 9067 seed	drop, growth substances 2459 oils, content, harvesting date 2459	diseased plants, yellow vein mosaic 6887
grapefruit, composition 372	Oil palm growth substances, fruit, drop	fruit, soil salinity 2838
tomato 253	2459	leaf, soil salinity 2838
Torreya nucifera, composition 2374 Trichosanthes spp., composition 2339	Oil palm leaf analysis, sampling, position 8167	flowering, date, growth substances 7758 growing
watermelon, extraction 1184	area, measurement 7207	as an intercrop
seeds, book 355	composition, genetic constitution 4069	pineapple 9198
Oil palm	Oil palm nutrition 864, 2463	sugarcane 5650
annual report Nigeria 9181	boron 1603 . deficiency	harvesting, time of 234 hybrids, F ₁ 2837
Sabah 9135	control measures 9187	mulching, paper, plastic coated 8747
Sarawak 4036	symptoms 1603, 3245	nematicides, translocation, Nemacur
boron content, leaf 7212	leaf analysis 7213 pest resistance, <i>Tetranychus pieroei</i>	2394 nitrates, content, nitrogen nutrition 2091
translocation 7212	6411	nucleic acids, biosynthesis, soil salinity
breeding and selection 1602	translocation 7213	2838
disease resistance, Fusarium oxysporum, f. elaeidis 8164	general leaf analysis, sampling 8167	nutrient, absorption, soil, salinity 3773 photoperiodism 7756
photosynthesis 9184	nurseries 7211	carbohydrates, content 8749
cover crops	leaf analysis 4069	flower bud, initiation 8749
legumes 7209 management 6410	magnesium 3244, 4070 leaf analysis 7214	pigments, content, diseased plants, yellow vein mosaic 6887
· ·		,

Subject Index		105
Okra contd.	Oleander growth substances contd.	Olive contd.
seedling, emergence, soil temperature	application contd.	pruning and training contd.
4447 temperature 7756	surfactants, aminozide 7059 dwarfing	regeneration 4823 regeneration, pruning 4823
carbohydrates, content 8749	aminozide 3932	soilless culture, nutritional studies 4027
flower bud, initiation 8749	chlormequat 3932	sterols, choline, content 4954
Okra diseases Erysiphe cichoracearum 160, 7757	interaction, temperature 3932 retardants, aminozide 7059	temperature, flower bud, initiation 818 transpiration, antitranspirants, fruit,
Fusarium solani, seed-borne 4528	Oleander propagation, cuttings, treatment,	quality 2424
Leveillula taurica 160	growth substances, IBA 7959	water potential, plant, growth substance-
Oidium spp. 160 Rhizoctonia solani 4529	Oligonychus afrasiaticus, date pests 2416 O. coffeae	induced fruit abscission 6378 water relations
Sphaerotheca fuliginea 160	control	anti-transpirants, growth substance-
Verticillium dahliae 387 yellow vein mosaic	cucumber and gherkin pests 5222 Cucumis melo var. flexuosus, pests	induced fruit abscission 6378
host enzyme activity 6887	5222	leaf, fall 1519
host pigments, content 6887	O. indicus, control, sugar cane pests 8232	weed control, review 5591 Olive bud, development, growth substances
yellow vein mosaic virus, chlorophyll, degradation 1259	O. mangiferus, grapevine pests 3585 O. pratensis, Cymbopogon spp., pests 5495	9113
Okra flower	Oligosita spp., parasite of, Numicia viridis,	Olive diseases
photoperiodism 8749	sugar cane 8241 Olive	Cycloconium oleaginum 3166 infection process 1518
temperature 8749	alkaloids 4824	Gloeosporium olivarum 3166
sex, growth substances, 2,4-	annual report, Italy 8050	Macrophoma dalmatica 3166
dichlorophenoxybutyric acid 1407 Okra fruit	chilling requirements, flowering 9113 enzyme activity	nurseries 8113 Pestalotia quepina 3166
dehiscence	bud, flower bud initiation 9112	Phomopsis osmanthi 3166
carbon dioxide 7466	leaf, flower bud initiation 9112	Rosellinia necatrix 3166
ethylene, production 7465	ethylene, production, growth substances, ethephon 2422	Olive disorders, nurseries 8113 Olive flower
proteins, content 4941	flowering	bud initiation 817
quality, F ₁ hybrids 2837 Okra growth substances	date, pollination, varietal differences 2419	chilling requirements 818
application, methods, chlormequat 7758	growth substances 9113	enzyme activity 9112
flower, sex, 2,4-dichlorophenoxybutyric	inhibition, growth substances 9113	phenolic compounds bud content 9112
acid 1407 flowering, date, chlormequat 7758	fruiting phosphorus, content, leaf 8112	leaf content 9111–9112
responses	proteins, content, leaf 8112	Olive fruit
chlormequat 7758	genetics, review 6375	abscission, growth substances 6378 amino acids, content 9115
GA 7755 MH 7755	growing, review 4026 hail, damaged plants, pruning and training	drop 9114
Okra nutrition	4823	loosening 2426
nitrogen 2091 NPK 665	harvesting chemicals to aid, review 4825	growth substances 1520, 6379, 7166, 9114
economics 665	fruit, loosening 6379	ethephon 1521, 2422
phosphorus 2091	mechanical 1522	phenolic compounds, content 2427
potassium 2091 Okra pests	economics 2426 fruit	quality, transpiration 2424 ripening 2426
Aceria esculenti 8748	loosening 2426	Olive growth substances
Radopholus similis 2394 Rotylenchulus reniformis 2394, 2460	growth substances 1521, 7166, 9114	bud, development, NAA 9113 ethylene, production, ethephon 2422
Tylenchulus semipenetrans 2394	review 2423	flowering
Okra plant	pneumatic suction 819	aminozide 9113
composition 2091 nitrogen nutrition 2091	pruning and training 2425 shakers 819, 1521, 2425, 6380	abscisic acid 9113
variation 5317	vibrating comb 3167	GA 9113
Okra pod, number, mulching, paper, plastic coated 8747	insecticides, residues, determination, monocrotophos 7302	fruit abscission, cycloheximide 6378
Okra seed	irrigation, fruit, ripening 2421	injury, cycloheximide 6378
germination	landscaping 3164	loosening
photoperiodism 7756 temperature 7756	oil, amino acid, metabolism 8114 as an ornamental plant 3164	chlormequat 9114 cycloheximide 1520, 7166
production 234	propagation, cuttings 2314	dichloroacetate 9114
sowing, dates, India 7756 treatment, growth substances 7755, 7758	parks 3164 phenolic compounds	ethephon 1521, 2422, 6379, 7166, 9114
Okra soil	content	glycerine 9114
salinity	leaf	monoiodoacetate 9114
enzyme activity 2838 nucleic acids, biosynthesis 2838	flower bud initiation 9111–9112 seasonal variations 9111	2,4,5-T 9114 leaf
nutrients, absorption 3773	phosphorus	abscission, cycloheximide 6378
plant, tolerance 3773 seedling emergence 4447	content leaf	cycloheximide 7166
Okra varieties	fruiting 8112	ethephon 7166
comparative trials, Pakistan 6886	seasonal variations 8112	residues, cylohexamide 1520
flower bud initiation	planting high density 4025	responses, chlormequat, review 8310 Olive leaf
photoperiodism 8749	oil, quality 2421	abscission
temperature 8749	spacing, root systems 4025 pollination, flowering, date, varietal	anatomy 5592 growth substances 6378
Oldenlandia affinis, alkaloids, determination 8033	differences 2419	anatomy 3165
Oleander	products and by-products	drop, growth substances 7166
dwarfing growth substances 3932	oil, quality, irrigation 2421 pulp, as a fertilizer 1880	fall, water relations 1519 Olive nutrition 4027
temperature 3932	proteins	general, leaf analysis 5681
flavonoids 4727	content	review 4026
phenolic compounds 4727 taxonomy, chemotaxonomy 4727	leaf fruiting 8112	Olive pests 1696 Dacus oleae
temperature	seasonal variations 8112	parasites, Opius concolor 6377
dwarfing 3932 interaction, growth substances 3932	pruning and training disease control, <i>Pseudomonas savastanoi</i>	poisoned bait 7165 D. spp., protein bait mixtures 816
Oleander growth substances	4823	nurseries 8113
application	hail damaged plants 4823	Zeuzera pyrina 4028
foam, aminozide 7059	mechanical harvesting 1522, 2425	Olive plant, biology 6375

Olive propagation	Onion contd.	Onion contd.
cuttings	harvesting	seedling contd.
root, treatment, growth substances, IBA 8323	desiccation, chemical, neo-decanoic acid mixture 4526	raising <i>contd.</i> pots <i>contd.</i>
shoot, size 9110	methods compared 7752	economics 3759
treatment	time of 3760	set, treatment, fungicides 6875
growth substances 9110	herbicides	shade, disease incidence, Peronospora
IBA 2314	bulb, composition, prometryne 7747	destructor 4523
wounding 2314	injury 3761 application time, Paxilon 6031	stomata, mechanism, temperature 1250 storage 5315
Olive root, systems, planting, spacing 4025 Olive rootstocks	measurement	buildings 2835
own-rooted plants compared 6376	chlorthal dimethyl, 1251	disorders 3771
-scion relationships 6376	difenoxuron, 1251	firmness, measurement 8744
Olive varieties	VCS-438 6029 residues, application, methods 1949	growth substances
Coratina 2420	tolerance, chlorthal dimethyl 5305	aminozide 4524
flowering, date 2419	humidity, relative	endogenous 3772 ethephon 4524
fruit, amino acids, content 9115 oil, content, annual report, Tunisia 3981	disease incidence	MH 4524
ornamental 3164	bulb storage, onion 7753	shoot growth, annual report,
register, USA 3356	Peronospora destructor 3763 insecticides	Cyprus 3604
Tunisia 4155	persistence, soil 1255	irradiation, gamma rays 1256
Oliveranthus spp., growing, as pot plants,	residues	methods compared 2835
annual report, Canada 8836	arsenic 3329	quality evaluation 8744
Olpidium brassicae vectors	determination, chlorpyrifos 4142 plant, lead arsenate 1951	seed treatment, gamma rays 8738
cucumber systemic necrosis	irrigation 3308	relative humidity 7753
cucumber and gherkin 4453	drip, water composition 8638	respiration, heat production 1148
lettuce 4453	flood, water composition 8638	review 2090
tobacco necrosis, vegetables 8651	methods, disease incidence 3763 recommendations 232	root, growth, growth substances, 376
Oncidium spp.	salinity problems 4376	rots 7753
flower, colour, pollination 4681 pollinaria 312	sprinkler 116, 4376	harvesting methods 7752 sugars, content 5304
pollination, flower, colour 4681	weed control 5305	temperature 3771, 7753
Oncobasidium therobromae, cacao diseases	sub-surface, water composition 8638 trickle 4376	tropics 664
3184	water, consumption 6884	weight loss, harvesting methods 7752
Onion	lead	sugars, content, latitude 5678
annual report	determination 4389	temperature
Australia 5882 Austria 114	residues 4936	disease incidence bulb storage 7753
Belgium 4363	light, artificial, sources compared, bulb, development 3767	Peronospora destructor 3763, 4523
Canada 1944, 2734, 5883	medicinal properties 5168	flowering 602
German Federal Republic 7599	mulching	stomata, mechanism 1250
Irish Republic 1939	paper 3762	transpiration, evapo- 6884
Malawi 8580 Netherlands 6772	peat, herbicide injury 1251 plastic 3762	transport, damage 7307
New Zealand 5152	weed control 7748	water relations 6884 weed control 1947, 3761, 5305, 5680,
UK 598, 601, 1934, 3610, 3613, 4366,	mycorrhiza, relationships 6880	6024, 6028–6031, 7747–7748, 8740
5885, 8584	nucleic acids, biosynthesis 5314	annual report
USA 600, 1130, 3616, 3618, 4368, 7601	nutrient absorption 2082 nutrients, content 5890	Australia 7596
breeding and selection	packing, damage 7307	German Federal Republic 8579
bulb	pectins, content, bulb skin 8745	review 5306
colour 5301	photoperiodism	weeds, competition 6879, 7748 winter hardiness, sugars, content 7662
shape 2830 disease resistance, <i>Peronospora</i>	bulb development 3767	Onion bulb
destructor 2830	initiation 2832	cell, size, herbicides, injury 1251
bulblet formation, growth substances, BA	ethylene 2086	colour, genetics 5301
1249	ripening 2832	composition
cadmium, determination 4389 carbohydrates, content, bulb 7754	flowering 602	determination 8744
chlorophyll, content, seed treatment,	pigments, content, seed treatment, gamma rays 8738	harvesting methods 7752 herbicides 7747
gamma rays 8738	planting 6027	processing, dehydration 1248
dormancy	material 6027	protein 231
growth substances, endogenous 3772 varietal differences 6885	spacing 6878	development
enzyme activity	annual report, Rhodesia 4364 irrigation 232	light 3767
bulb	nitrogen nutrition 8739	photoperiodism 3767
dormancy 6885	seed production 7746	drying, methods 2835 firmness, measurement 8744
flavonols, biosynthesis 2834 nutrient deficiency diagnosis 1145	pollination	flavonols, biosynthesis 2834
root 3768	nectar potassium content 2088	heat treatment 1690
seed, germination 2833	seed production 5899	initiation
essential oil, analysis 1257	processing	ethylene, photoperiodism 2086
flowering	dehydration	growth substances, ethephon 2086
growth substances, chlormequat 3770 inhibition, growth substances, MH	varietal behaviour 1248 varieties 5303	photoperiodism 2832 ethylene 2086
3770	proteins	irradiation
photoperiodism, temperature 602	content, varietal differences 231	gamma rays
temperature, photoperiodism 602	determination, electrophoresis 4384	post-harvest 4527
fungicides, application, surfactants, CTP- Cu 6875	rainfall disease incidence, <i>Alternaria</i> spp. 5166	composition 1256 storage life 1256, 3771
growing	protection, plastic 5166	peruvic acid, content, varietal difference
India, in the rainy season 6874	report, Sri Lanka 2733	1248
as an intercrop, sugar cane 8202	respiration, bulb, heat production, storage	quality
media, compared 7605 peat 7605	1148	harvesting methods 7752
nutrition 7604	seedling emergence, nematicides, dazomet 1254	seed sowing dates 2836
tropics 664	growth, inhibition, Coronilla varia seed	spacing 2836, 3760
Tunisia 4369	leachate 7625	ripening
tunnels 1187, 3760 plastic 5166	raising	latitude 5678
Prastic 5100	pots 3759, 6027	photoperiodism 2832

doject macx		100
Onion bulb contd.	Onion nutrition contd.	Onion varieties contd.
scales	manganese, application, seed 7773	comparative trials contd.
cell	molybdenum 6032	India 231
water permeability	nitrogen 8741	disease incidence, Botrytis cinerea 8737
growth substances	plant analysis 2081	disease resistance, Pyrenochaeta terrestris
aminozide 4524	planting, spacing 8739	1253
decenylsuccinic aicd 5313	NPK 118, 1252	India 6874
size	requirements 7749	photoperiodism 2832
growth substances, MH 3770	phosphorus 6032, 8741	Plant Atjar 4522
seed sowing rate 6877	absorption 5307–5309	processing 1134
vitamin, treatment 233	mycorrhiza relationships 6880	dehydration 1248, 5303
skin, pectins 8745 sugars, content, storage 8744	plant analysis 2081 potassium 6032, 8741	pickling 5302 spring planting, New Mexico 1247
sulphur, content, irradiation, gamma rays	plant analysis 2081	storage behaviour 2836
1256	sulphur 8741	USSR 1942
treatment, haemagglutinin, root	Onion pests	Onion, welsh
development 2798	Aceria tulipae 228	nitrite, toxicity 5893
water, content, irradiation, gamma rays	Ditylenchus dipsaci 1254, 3317, 3878	proteins, determination, electrophoresis
1256	annual report	4384
Onion diseases	Irish Republic 6770	Onion, welsh, diseases
Alternaria spp., incidence, Nigeria 5166	UK 5153	Erwinia carotovora, varietal resistance
Botrytis cinerea, varietal resistance 8737	Hylemya antiqua 1255	6034
Fusarium oxysporum	control 8742	Pseudomonas syringae 2083
f. cepae, soil, inoculum 2831	Liriomyza langei 5298	Onion, welsh, plant, morphology 5316
seed treatment 6875 set treatment 6875	Meloidogyne hapla 2761 M. incognita 3764	Onion, welsh, varieties disease resistance, Erwinia carotovora
Peronospora destructor 3763	M. javanica 3764	6034
control 5312	M. spp., soil fumigation 7801	Java 6034
host nutrition 663	M. thamesi 3764	Ootetrastichus beatus, parasite of, Numicia
resistance, breeding and selection 2830	Pratylenchus brachyurus 3764	viridis, sugar cane 8241
temperature 4523	Tetranychus telarius 228	Operophtera brumata, apple pests, annual
P. schleidenii 2084	Onion root	report, Netherlands 5698
Pseudomonas cepacia 6883	absorption 230	Ophiobolus graminis
histology 5311	exudate	control, lawns and sports turf, diseases
infection process 5310	composition 3766	8918
P. syringae 2083	osmotic pressure 3765	lawns and sports turf, disease 4671
Pyrenochaeta terrestris, varietal resistance	soil, micro-organisms, control,	Ophiopogon spp., taxonomy, cytotaxonomy
1253 Salaratium coniucrum annual remert LIV	Verticillium dahliae 2085 growth 1147	3905 Onhonus rufines 2702
Sclerotium cepivorum, annual report, UK 8583	histology 230	Ophonus rufipes 2703 Opius concolor, parasite of, Dacus oleae,
Urocystis magica, control 7751	Onion scape, temperature 1250	olive 6377
U. spp., annual report, Canada 3603	Onion seed	Opuntia spp.
yellow dwarf	germination	diseases, witches'-broom 1373
control, cultural methods 6882	enzyme activity 2833	edible fruits 822
cytology 6033	growth substances, ethephon 4525	fatty acids, content 1527
seed-borne 6881	irrigation 4376	fruit
Onion disorders, bud darkening 3771	temperature 2093–2094	composition, fatty acids 1527
Onion flower	production	indicaxanthin, biosynthesis 5595
stem	bulb treatment 2089	Orange
development, growth substances, ethephon 4525	disease incidence 6882 growth substances, ethephon 4525	aerial spraying, insecticides, <i>Trioza</i> erytreae 4805
length, growth substances, ethephon	NPK, nutrition 663	annual report
4525		Australia 4782, 9074
temperature 1250	planting, spacing 7746 pollination, bees 5899	Cyprus 3980
Onion growth substances	spacing 663	USA 2375
bulb	sowing	ascorbic acid, content, coloured light
initiation, ethephon 2086	dates 2836, 5303	7149
size, MH 3770	Bulgaria 5304	boron, absorption 6342–6343
storage	disease incidence 3763	breeding and selection 3098
dormancy aminozide 4524	pelleted 6876 depth, pelleted 6876	interspecific hybridization 5545 calcium
ethephon 4524	mechanical, equipment 6939	absorption 6342–6343
MH 4524	rate 6877	content, fruit, disorders 5556
root growth, MH 3769	row direction, disease incidence 3763	carbohydrates
shoot growth, MH, annual report,	spacing 2836, 3760	content
Cyprus 3604	annual report, German Federal	disease resistance 3131
bulblet formation, BA 1249	Republic 7600	frost resistance 3131
cell	disease incidence 3763	chlorophyll
water permeability	storage, annual report, UK 3612	content
aminozide 4524	sugars, content 8883 treatment	coloured light 7149 iron nutrition 8075
decenylsuccinic acid 5313 endogenous, bulb 3772	boron, manganese, zinc, copper,	plant nutrition 9100
flower stem	molybdenum 6078	climate
development, ethephon 4525	capsicum fruit extract 2093-2094	California
length, ethephon 4525	fungicides 3622, 6875	fruit composition 8099
flowering	carboxin + thiram 7751	fruit flavour 8099
chlormequat 3770	gamma rays 8738	fruit size 8099
inhibition, MH 3770	hydrophobic compounds 6025–6026	Israel 1472
injury, MH 3770	manganese 7773	microclimate 1472
responses	pelleted 6876	copper, absorption 6342–6343
IAA 8743	Onion seedling, vitamin, treatment 233	cuticle
IBA 8743 NAA 8743	Onion soil fumigation, <i>Meloidogyne</i> spp., thiazone	structure fruit 5571
NAA 8743 seed	7801	leaf 5571
germination, ethephon 4525	moisture 8741	enzyme activity
production, ethephon 4525	sampling, methods, microvolumes 9	fruit abscission layer
Onion leaf	Onion varieties 5303	growth substances 8085
sugars, content, seasonal variations 7662	annual report	cycloheximide 2405
temperature 1250	UK 5 [°] 149	leaf, coloured light 7149
Onion nutrition	Western Samoa 7602	essential oil
boron, copper nutrition 7750	Bulgaria 5304	content, virus incidence, stubborn
copper 7750	comparative trials	6345
boron nutrition 7750	annual report, St. Lucia 8577	fungicidal properties 6256

1002		110111001101111111111111111111111111111
Orange contd.	Orange contd.	Orange diseases contd.
ethylene	photoperiodism, nitrogen, metabolism	Colletotrichum gloeosporioides 7143
fruit	8754	concave gum psorosis, interaction, diseas
abscission 4009	photosynthates, translocation, fruit set	resistance, Deuterophoma tracheiphia
pigments 4814	6357	4802
production	photosynthesis, plant nutrition 9100	Curvularia tuberculata 7143
fruit, storage 3152	planting	Deuterophoma tracheiphila 365
growth substances, abscisic acid,	anti-transpirants 6355	resistance, virus interaction 4802
IAA, kinetin, GA 2069	spacing 3105	varietal resistance 3131
treatment, fruit, limonin, content 5576	pollination, pollinating varieties 8090	Diplodia natalensis 4810, 7143
flowering	as a pollinator, tangor 9102	D. spp., post-harvest dips 6362
date, forecasting, temperature sums	polyembryony 9079	exocortis 5547
2379	potassium absorption 6342–6343	detection, chromatography 4796 incidence 5558
planting, spacing 3105	content	interaction, disease resistance,
secondary, prevention 8092	leaf	Deuterophoma tracheiphila 4802
frost	copper nutrition 9087	Fusarium spp. 5563
protection, temperature data 6335	iron nutrition 9087	incidence 6327
resistance 3101	manganese nutrition 9087	greening, detection, chromatography
carbohydrates, content 3131	nitrogen nutrition 9087	4796
nitrogen, content 3131	zinc nutrition 9087	greening virus 1487
polyploids 7129	products and by-products	infectious variegation, interaction, diseas
fruiting, date, forecasting, temperature	essential oil	resistance, Deuterophoma tracheiphi
sums 2379	aldehydes, content 1511	4802
fungicides	extraction 1511	Mycosphaerella citri 3127
application	juice	M. spp. 3132
methods compared, thiabendazole,	characterization, amino acids,	Penicillium digitatum 4810, 9099
benomyl 6362	composition 1508 fatty acids 806	post-harvest dips 4811 P. spp. 7155
wax coatings, thiabendazole, benomyl 6362	limonin, content 5576	Phytophthora spp., host amino acids,
persistance, benomyl 9099	phospholipids 806	content 2393
residues	pulp, animal fodder 5580	psorosis virus 1486
determination	proteins	stubborn, essential oil, content 6345
benomyl 6501	content	stubborn disease 2391
captafol 2505	bud, growth substances 8089	Trichoderma spp., post-harvest dips
captan 2505	leaf, growth substances 8089	6362
folpet 2505	pruning and training, regeneration 5553	Orange disorders
thiabendazole 4019, 6501	regeneration	chlorosis 8075
fruit	pruning	zinc nutrition 3121
benomyl 1698, 9099	fruit, size 5553	creased fruit 2414
biphenyl 9107	topworking compared 5553	creasing 4793, 5556
phenylphenol 9107	respiration	granulation 807, 4794 sand hill decline 3123
thiabendazole 4019 translocation, benomyl 9099	ethylene, production 383 fruit, gamma rays 1504	storage spot 4812
growing, Mozambique 360	ringing	young tree decline 3123
harvesting	fruit	Orange flower
fruit .	drop 4807	bud initiation
loosening, chemical 4011	size 4807	growth substances 8089
size 6359	growth substances, endogenous 4807,	varietal differences 9101
mechanical	8083	nectary, structure 8009
fruit, loosening, growth substances	time of, fruit, size 4006	Orange fruit
3148	silicon, determination, colorimetric 7287	abscission
shakers 4011, 4013	spraying, precipitants, residues 9086	ethylene 4009
time of, fruit composition 6366	stomata, structure 5571	ethylene production 2406
herbicides injury, GS-14254 8065	storage controlled atmosphere	growth substances cycloheximide 2406, 4009
persistence, GS-14254 8065	fruit	2,4-D 2406
tolerance	composition 9104	ethephon 2406, 4009
nitralin 8065	enzyme activity 9104	removal force, seasonal variations
R-7465 8065	flavour 9104	4009
hybrids, interspecific 5545	respiration 9104	abscission layer, enzyme activity, growtl
insecticides	dips	substances 8085
oil, fruit, colour 5564	disease control	alcohols, content, storage 9104
residues	Diplodia spp. 6362	amino acids, content 7157
arsenic 3329	Trichoderma spp. 6362	ascorbic acid
determination	plastic bags 3150	content
chlorpyrifos 4142	rots, coatings 1506	climate 6334, 8099
monocrotophos 7302 fruit, methomyl 2507	temperature disease incidence 1506	iron nutrition 8075 seasonal variations 8099
iron, absorption 6342–6343	fruit	storage 5573
lactones 6367	colour 5573	colour
lead, residues 4936	composition 5573	climate 6334, 8099
light	temperature	growth substances, ethephon 2407
coloured	fruit, pigments 4814	insecticides, oil 5564
enzyme activity 7149	sums, disorder incidence 807	seasonal variations 8099
leaf, composition 7149	topworking 5553	composition 5575, 7157
shoot, growth 7149	transport	calcium nutrition 370
magnesium, absorption 6342-6343	containers, compared 1507	climate 6334, 8099
manganese, absorption 6342–6343	pre-cooling, temperature, container-	creased fruit 2414
nitrates, content, NPK nutrition 2384 nitrogen	4016	growth substances, GA 1500, 4007
absorption 6342-6343	vitamins, content 3339 water potential, leaf, soil water	harvesting date 6366
content	correlations 6356	nitrogen nutrition 370
disease resistance 3131	water relations, fruit, size, diurnal changes	nutrition 1478
frost resistance 3131	3140	plant nutrition 8069
metabolism, photoperiodism 8754	weed control 1947, 4790, 8065	rootstocks 4788
nutrient absorption	weeds, competition 8066	seasonal variations 8099
major elements 8069	wind, damage 1474	coumarins, content 8446
minor elements 8069	zinc, absorption 6342-6343	degreening
nutrient solution composition 7135	Orange bud, proteins, content 8089	disease incidence
packing, fruit weight loss 7151	Orange diseases	Diplodia natalensis 4810
phenolic compounds, content 4802 phosphorus, absorption 6342–6343	Alternaria citri, fruit storage 5574	Penicillium digitatum 4810
phosphorus, ausorphon 0342-0343	collar rot, cause unknown 362	ethylene 4810

Subject Index		106
Orange fruit contd.	Orange fruit contd.	Orange leaf contd.
degreening contd.	size contd.	composition contd.
growth substances, ethephon 2409	storage quality 5573	potassium
room design 4015	sugars	calcium nutrition 7135
temperature 4015 development, growth substances GA	content 7157 seasonal variations 4020	magnesium nutrition 7135
1500	wax coatings 3154	cuticle, growth substances, absorption 2885
drop	injured fruit 3154	ethylene, production 2406
growth substances 3144, 8091	mechanical injury resistance 9103	fall, copper nutrition 4791
potassium nutrition 3115	weight, loss, handling 7151	-fruit relationships, fruit set 6357
ringing 4807	Orange growth substances	growth phases, nitrogen metabolism
ethylene	absorption foliar	8754
production growth substances 3148	abscisic acid 2885	nitrogen content
cycloheximide 2405	2,4-D 2885	manganese nutrition 1481
flavonoids 8102	NAA 2401, 2885	zinc nutrition 1481
flavour	disease incidence, 2,4-D 1506	nutrients
climate 6334, 8099	endogenous, ringing 4807, 8083	content
nitrogen nutrition 7159	enzyme activity	seasonal variations 3114
seasonal variations 8099 storage, controlled atmosphere 9104	cycloheximide 2405 fruit abscission layer, cycloheximide	varietal variations 3114 proteins, content 8089
folic acid 4816	8085	sugars
fumigation	ethylene	content
ethylene, production, ethylene	production	manganese nutrition 1481
dibromide 3152	abscisic acid 2069	zinc nutrition 1481, 1481
residues, ethylene dibromide 3152 hydrocarbons, content, varietal differences	cycloheximide 2405, 3148 GA 2069	transpiration, antitranspirants, persistence
8100	IAA 2069	Pinolene 6354 Orange nutrition 3115
injury	kinetin 2069	calcium 3115, 7135
growth substances 5572	fruit	fruit
resistance 9103	abscission	quality 370, 3118
irradiation	cycloheximide 2406, 4009	size 1478
gamma rays, mechanical injury resistance 9103	2,4-D 2406 ethephon 2406, 4009	leaf analysis 1478 photosynthesis 9100
ionizing	colour, ethephon 2407	zinc nutrition 8073
disease control 604	composition, GA 1500, 4007	copper
injury, tainting 604	degreening, ethephon 2409	application
-leaf relationships, fruit set 6357	development, GA 1500	foliar 4791
limonin, content, growth substances,	drop 2,4-D 3144, 8091	injury 4791, 9086
ethephon 5576 loosening	NAA 3144	precipitants 9086 residues 9086
growth substances 5572	2,4,5-TP 3144	fruit, composition 1478
aminozide 3148	2,4,5-T 3144, 8091	leaf, potassium content 9087
cycloheximide 2405, 3147–3148,	GA 1501	leaf analysis 1478
4010–4011 athenhan 2407	injury	FYM 9087
ethephon 2407 organic acids 4011	cycloheximide 3148, 4010, 5572 erythorbic acid 5572	photosynthesis 9100 general, chlorophyll, content 9100
maturity, colour, juice content 3159	hexamic acid 5572	green manures 9087
nutrients, content 3157	limonin, content, ethephon 5576	interaction, cations 7135
organic acids	loosening	iron
content 7157	aminozide 3148	absorption 3997
seasonal variations 4020	cycloheximide 2405, 3147–3148, 4010–4011, 5572	leaf, sources 3997 application, foliar 3997
thickness	erythorbic acid 5572	chlorosis 8075
calcium nutrition 370	ethephon 2407	fruit, composition 8075
climate 8099	hexamic acid 5572	leaf
nitrogen nutrition 1479	set 1501	chlorophyll, content 8075
seasonal variations 8099	2,4-D 8091 GA 1500, 4007, 8091	potassium content 9087 sources, chelates 3119
pigments biosynthesis, ethylene, temperature	2,4,5-T 8091	translocation 3997
4814	shape, GA 1500	leaf analysis 796
metabolism 4005	size 1501	magnesium 3115, 7135
post-harvest treatment, gamma rays,	2,4-D 8091	application, foliar 1485
respiration 1504	GA 1500 leaf	deficiency 1485 fruit
proteins, content 4941 quality	abscission	composition 1478
calcium nutrition 3118	cycloheximide 2406, 3147, 5572	quality 370
nitrogen nutrition 7159	2,4-D 2406	leaf analysis 1478, 1485
nutrition 3115	erythorbic acid 5572	sources, compared 1485
potassium nutrition 805	ethephon 2406	manganese application
soil, pH 3118 ripening, propylene treatment 383	proteins, content, GA 8089 translocation, NAA 2401	foliar 1481–1482, 4791, 6342–6343
set	Orange leaf	precipitants 9086
growth substances 8091	abscission	residues 9086
GA 1500–1501, 4007	ethylene production 2406	fruit, quality, juice content 6342-6343
planting, spacing 3105	growth substances 5572	leaf, potassium content 9087
shape, growth substances, GA 1500	cycloheximide 2406, 3147 2,4-D 2406	minor elements 3115
size calcium nutrition 370	ethephon 2406	nitrogen application, foliar 3993, 6342-6343
climate 6334, 8099	amino acids	fruit
diurnal changes, water relations 3140	content	composition 1478, 7159
growth substances 8091	disease incidence 2393	flavour 7159
GA 1500–1501	soil, oxygen concentration 2393	quality 7159
harvesting 6359 nitrogen nutrition 1479	chlorine, content, wind damage 1474 composition	juice content 6342-6343 size 1478
NPK nutrition 3993	calcium	leaf analysis 1478, 2384
nutrition 1478	magnesium nutrition 7135	photosynthesis 9100
pollination 4808	potassium nutrition 7135	sources, compared 1479, 9087
pruning and training, regeneration	cations, nutrient absorption 7135	NPK 3157
5553	magnesium	pest resistance, scale insects 2397
ringing 4006, 4807 seasonal variations 8099	calcium nutrition 7135 potassium nutrition 7135	photosynthesis 9100 phosphorus 3115
seed, number per fruit 4808	mineral elements 1484	application, foliar 3993

Orange nutrition contd.	Orange, sour contd.	Organic acids contd.
phosphorus contd.	as a rootstock contd.	metabolism
fruit, composition 1478	orange 795	enzyme activity, <i>Kalanchoe</i> spp. 8926 mushroom 7839
leaf, composition 2384	Orange, sweet as a rootstock	photoperiodism, <i>Kalanchoe</i> spp. 8926
leaf analysis 1478	citrus 3988	Origanum glaucum, essential oil,
plant analysis 5555 potassium 3115, 3117, 7135	orange 795	composition 3949
application	Orange varieties	O. majorana
foliar 3993	comparative trials, annual report, Burundi	essential oil, content, varietal differences
time 3995	4786	7976
fruit	disease resistance, Deuterophoma	flower, essential oil, content 7976 *
composition 1478	tracheiphila 3131	leaf, essential oil, content 7976
quality 805	disorder incidence 807	stem, essential oil, content 7976
size 1478	disorder resistance, creasing 5556	varieties
leaf, composition 2384 leaf analysis 1478	frost, resistance, leaf, composition 3131	essential oil, content 7976
sewage sludge, photosynthesis 9100	fruit 4016	growth studies 7976
soil analysis 796	folic acid 4816	O. spp. essential oil 4738
soil uniformity restoration, post-	hydrocarbons, content 8100 leaf, composition, seasonal variations	phenolic compounds 3035
experiment 3994	3114	Orius insidiosus, predator on, Panonychus
sulphur 3115	Navelate 5547	ulmi, apple 4213
zinc application	pollination 8090	Ornamental palms
foliar 1481–1482, 4791, 6342–6343	Sladkii 3098	flower, perianth aestivation 4831
precipitants 9086	Orchard renewal	seed, germination 9125
residues 9086	frameworking	Ornamental plants 2244
methods compared 7138	apple 4157	acaricides, tolerance 2173
availability 8073	cherry 4157	air pollution, injury, peroxyacetyl nitrate,
calcium nutrition 8073	methods compared, fruit trees and plants	nitrogen oxides 4130
deficiency, chlorosis 3121 fruit	4157 Orchids	alkaloids, content 2346
composition 1478	air pollution, sulphur dioxide, ethylene,	amino acids, content 449
quality, juice content 6342–6343	injury 6132	annual report
leaf, potassium content 9087	annual report	Belgium 5386
leaf analysis 1478	Belgium 5386	German Federal Republic 6959 Netherlands 6127
sources	USA 1441, 6129	UK 867
compared 8073	chlorophyll, biosynthesis, growth	axillary bud, meristem, anatomy 2912
fruit, quality 3121	substances 7029	book, Ghana 2911
nutrient absorption 3121 Orange pests	compost, amendments, plastic foam 8850 growing, as pot plants 8936	breeding and selection, review, India
Aceria sheldoni 9095	growth substances	8840
control 7145	chlorophyll, biosynthesis,	bulb, morphology 4613
Aonidiella aurantii 5564	orthochlorophenoxyacetic acid	carbon dioxide, concentration, tolerance
oil fruit dips 1493	7029	6782
parasites, Aphytis melinus 1495	pigments, biosynthesis,	chromosome numbers 1318–1319
resistance 3134 NPK nutrition 2397	orthochlorophenoxyacetic acid 7029	collection, USSR 2157 conference 6211
Ceratitis capitata, poisoned bait 7165	hybrids, sterility 8934	corm, morphology 4613
C. spp., protein bait mixtures 816	mycorrhiza 5459	diseases 3319
Chrysomphalus ficus 7147	relationships 310	review, USSR 2162
Lepidosaphes beckii 7147	nutrition, annual report, German Federal	South Africa 2172
resistance, NPK nutrition 2397	Republic 7844	dwarfing, growth substances 4610
mites, biological control 366	pigments, biosynthesis, growth substances	flower
Panonychus citri 5564 aerial spraying 8079	7029 plant, histology, tissue preparation 6208	colour, latitude 5678 harvesting, mechanical, annual report,
Phyllocoptruta oleivora 6349	propagation 0200	Netherlands 1314
control 8080	meristem, tissue culture, transplanting,	fluorine, toxicity 4130
Trioza erytreae, aerial spraying 4805	media 8774	fungicides, tolerance 2173
Tylenchulus semipenetrans 2395	shoot-tip culture 1380	growing
Orange propagation	seed, germination 7936	book 6476
cuttings	seedling, growth 7936	in containers, weed control 8851
root, treatment, growth substances, IBA 8323	tissue culture callus	under glass economics 4122
time 3986	chlorophyll, biosynthesis 7029	Netherlands 4122
treatment, growth substances, IBA	pigments, biosynthesis 7029	India 8840
3986	Organic acids	media, annual report, Italy 6960
nucellus, embryo, tissue culture 6333	biosynthesis	growth substances
Orange rootstocks	fruit, Aspergillus variecolor, litchi 8110	application, surfactants, chlormequat 8842
citrange 5547 Citrus macrophylla 8063	pea 7739	metabolism, indole3-acetaldoxime
C. wilsonii 4788	stomata, mechanism, bean (Vicia)	5898
comparative trials 795	3724	retardants, ancymidol 1326
USA 8063	content	herbicides
lime (Citrus), review 3102	fruit	injury 5392
Poncirus trifoliata 3101, 5547	berry fruits 101	tolerance 2173
-scion relationships frost resistance 3101	citrus 7157	pronamide, chlorpropham 6779 Indonesia 1674
fruit	Citrus spp. 7157 drought, mandarin and tangerine	insecticides, tolerance 2173
composition 4788	8093	irrigation
juice content 6342-6343	Phytophthora citrophthora, lemon	recommendations 1324
size 6342–6343	6347	water
leaf, composition 1484	ripening, banana 8126	composition
nutrient absorption 6342–6343	iron nutrition, tomato 7789	boron 5163
Orange seed, number per fruit, fruit, size 4808	leaf, vegetables 8594	chlorine 5163
Orange soil	ripening, pea seed 5290 seasonal variations	sodium 5163 light, quality, spectral, latitude 5678
oxygen concentration, plant amino acids,	ornamental trees and shrubs 4163	nutrition 2160
content 2393	tree fruits 4163	boron, deficiency 6499
pH, fruit, quality 3118	varietal differences, pea seed 5290	general, colloquium 6479
Orange, sour	determination	nitrogen 6963
as a rootstock	fruit, grapevine 7593	phosphorus 6963
disease resistance, grapefruit 9092 grapefruit 5559, 6332	liquorice 8024 vegetables 5901	potassium 6963 ozone, injury 4130
5. apoli ale 0007, 0002	rogetables 5701	ozone, injury 4150

Ornamental plants contd.	Ozone contd.	Pandemis contd.
pests	injury contd.	P. ribeana, control, apple pests 7392
biological control, Bacillus thuringiensis	leaf	P. spp.
447	composition, adenylates, bean	apple pests 478
Meloidogyne incognita, resistance	(Phaseolus) 6841	annual report, German Federal
4615	ethylene production, bean (<i>Phaseolus</i>)	Republic 6506
M. javanica, resistance 4615	4483	Panicum capillare, as weeds, lawns and
M. spp. 4931	metabolism, bean (<i>Phaseolus</i>) 2015	sports turf 8914
nematodes 446	photosynthesis, bean (<i>Phaseolus</i>)	P. spp.
Pratylenchus penetrans, resistance	8681	as weeds
4615	poinsettia 3916	bean (Phaseolus) 8683
slugs 1329	respiration, bean (<i>Phaseolus</i>) 1209, 8681	coconut 8141 peach 1016
photoperiodism, latitude 5678	petunia 4633	tea 4106, 9272
photosynthesis, gas exchange ratio 2915	pollen, petunia 1340	vegetables, herbs 6777
potting composts, types compared,	prevention	Panonychus citri
nutrient availability 6963 production, economics, Aalsmeer 705	fungicides	aerial spraying, orange pests 8079
propagation	bean (Phaseolus) 1210-1211	citrus pests 821
cuttings, soil, temperature 3897	benomyl, bean (Phaseolus) 6840	orange pests 5564
grafting, methods, tropics 875	growth substances	P. ulmi
under mist 5677	petunia 6152	annual report, Canada 2515
rhizome, morphology 4613	poinsettia 8946 sulphur nutrition, bean (<i>Phaseolus</i>)	apple pests 30, 455, 473, 1744, 3408, 5731, 5738, 6571
seed	2788	annual report
germination, harvesting time 8874	varietal resistance	Canada 8314
oil, biosynthesis 3336	lettuce 5178	Netherlands 5698
size, harvesting time 8874	petunia 6152	New Zealand 4171
seedling, growth, soil, temperature 3897	radish 5178	UK 8318
shoot, morphology 4613	spinach 4392	biological control, apple pests, annual
soil	tomato 673	report, Netherlands 5697
aeration, amendments 709	leaf, micro-organisms, bean (<i>Phaseolus</i>)	control
amendments	6839	apple pests 4950, 4987, 7384,
hydrophobic polystyrene foam 709	potassium, metabolism, tissue culture, bean (<i>Phaseolus</i>) 7711	7390–7391 fungicides, apple pests 5734
hydrophyllic urea-formaldehyde-foam	Pachistima propagation, cuttings, frame	growth substances, aminozide, apple
resin 709	6134	pests 4214
plastic foam 709	Packing	damage, apple pests 953
water-soluble polymers 709	bulbs, annual report, Netherlands 2219	damson pests, annual report, German
types, nutrient availability 6963	containers	Federal Republic 6506
spring-flowering, book 6125	polystyrene, economics, apple 980	forecasting, apple pests 1757
sulphur dioxide, injury 4130	types compared	fruit set, apple pests 7371
temperature, latitude 5678 tuber, morphology 4613	apple 5754 cucumber and gherkin, annual report,	incidence, apple pests 7394 integrated control
value	Netherlands 8581	apple pests 8394
aesthetic 1316	cooling	peach pests 514
functional 1316	cherry 3450	pear pests 5738
water relations, review 1324	cut flowers, carnation 6969	plum pests 81
weed control 1681, 4924	damage	population studies
annual report, USA 1315 survey 5392	apple 7307 cherry 7307	apple pests 4986 fungicides
wild, Crimea 862	onion 7307	apple pests 5737
Ornithogalum spp., seed, sugars, content	fruit 8312	grapevine pests 3586
8883	fruit weight loss, citrus 7151	predators
Orobanche spp.	orientation, mechanical, apple 55	apple pests 4213
control	plastic, bags, disorder incidence, pineapple	Zetzellia mali, apple pests 1756
bean (Vicia) 4488	6419 before storage, apple 8415	varietal resistance, apple pests 953 Pansepta teleturga, cacao pests 2444
growth substances, watermelon 5210 watermelon 8648	straw, fungicides, pomegranate 9118	Pansy
Orosius argentatus, mycoplasma, vectors,	vegetables 8312	growing, economics 1353
legume little leaf 278	vibration	pollination 7891
Oroxylum spp., bark, composition,	fruit damage elimination, apple 1802	weed control, annual report, UK 6128
flavonoids 6304	fruit settlement in box, apple 1803	Pansy flower, morphology 7891
Oryctes rhinoceros, coconut pests 2444	work studies, flowers, rose 4704	Pansy nutrition
Oscinella frit, lawns and sports turf, pests	Paecilomyces fumoso-roseus, fungal parasite,	nitrogen 6133 phosphorus 6133
Osmia cornifrons, pollinator, apple 1780	Zephodia convolutella, small fruits 7498	Pansy seed, treatment, pelleted 1353
Osmotic pressure, cell sap, measurement,	Paeonia albiflora, glycosides 5527	Pantorhytes spp., cacao pests 2444
equipment 4919	P. spp., plant, anatomy 2313	Papaver spp., alkaloids, content 5529
Osteospermum fruticosum, ground cover	Paivaea spp., growing, tropical America	Papaw
plants, growth retardants 6157	377	annual report
O. spp. 710	Pakistan, okra varieties, comparative trials	Australia 9121
ground cover plants 710 weed control 710	6886 Palumbina spp.	India 4034 enzyme activity
Ostrachoderma spp., soil steaming,	leaf, anatomy 4680	annual report, Australia 1529
mushroom diseases 6956	pollinaria 312	diseased plants 3246
Ostrinia nubilalis, capsicum pests 3777,	Panax ginseng	fruit 8170
4540	alkaloids, determination 1443	ripening 3247–3248
Otiorrhynchus asphaltinus, grapevine pests	composition 3961	enzymes, fruit 8170
1923 O sulcatus stramberry pasts 5818	fusarium spp. 3052	growing Cameroon 1608
O. sulcatus, strawberry pests 5818 Ovulinia azaleae, azalea diseases, annual	Pythium debaryanum 3052	papain production 843
report, Australia 5385	Rhizoctonia solani 3052	Venezuela 8119
Oxalis cernua, as weeds, carnation 2921	Trichoderma spp. 3052	harvesting
Oxalis corniculata, as weeds, rose	enzyme activity 2338	mechanical 6415
6226–6227	medicinal properties 6305	time of, fruit colour 4878
Oxygen, translocation, pea 1233	phytoncides 6305	latex, production, growth substances
Ozone	seedling, morphology 8034	7216
cell permeability, bean (<i>Phaseolus</i>) 8682 injury 4130	sterols, content 1445 P. spp.	papain, extraction 843
bean (Phaseolus) 6840	diseases, Fusarium solani 2057	planting, in bamboo baskets 9192
bedding plants 1322	fungicides, injury 3052	report, USA 6382
annual report, Canada 8836	Pandemis heparana, control, apple pests	rhizosphere, leaf, composition 1609
grapevine 6728	7392	seedling, raising, bamboo baskets 9192

Papaw contd.	Papua New Guinea, oil palm, growing	Parthenocissus spp. contd.
species, disease resistance, mosaic 9193	7206, 7214 Parakasta damaga guaya pasta 9174	leaf <i>contd.</i> phenolic compounds 744
storage coatings, wax 8171	Parakeets, damage, guava pests 9174 Paralongidorus maximus, vegetables, pests,	Paspalum conjugatum, as weeds, rubber
dips	annual report, German Federal Republic	5642
disease control	8579	P. spp.
Rhizopus stolonifer, benzyl	P. spp., virus, vectors, grapevine pests,	as weeds
isothiocyanate 7217 stem end rot, benzyl isothiocyanate	annual report, German Federal Republic 4298	cacao 8134 citrus 6338
7217	Parametriotes theae	coffee 4858
vitamins, content 3339	control, cultural methods, tea pests 3279	oil palm 1601
wax coatings, storage 8171	tea pests 3280	rubber 4881, 7224, 7226, 9210
Papaw diseases	Paramyelois transitella biological control, almond pests 4955	tea 4106 P. urvillei, as weeds, citrus 6339
Ascochyta spp. heat treatment 8171	control, cultural methods, almond pests	Passiflora foetida, diseases, Colletotrichui
post-harvest dips 8171	33	gloeosporioides 8966
Colletotrichum dematium 1610	Parasa pallida Ivory Coast	P. incarnata, alkaloids, determination 90
C. gloeosporioides	coconut pests 9188	P. spp., growing, tropical America 1523
heat treatment 8171	oil palm pests 9188	Passion fruit annual report, Australia 4782
post-harvest dips 8171 Corynespora cassiicola 1611	P. spp., coffee pests 1583 P. viridissima	breeding and selection, report, USA
distortion ringspot 401, 8169	Ivory Coast	6324
fruit rots, heat treatment 4072	coconut pests 9188	growing, review 2428
leaf reduction, host enzyme activity 3246	oil palm pests 9188	processing, review 2428
leaf reduction virus 1609 mosaic 9193	Paratylenchus spp. soil treatment	report, Sri Lanka 6323 Passion fruit diseases
transmission, root inoculation 6414	carrot pests 8811	Australia 6518
vectors, aphids, annual report, USA	celery pests 8811	Gibberella saubinettii, symptoms 9117
6383	Parks landscaping	Passion fruit, fruit irradiation, gamma rays, post-harvest,
Rhizopus spp. heat treatment 8171	ornamental plants 2908	storage life 2435
post-harvest dips 8171	trees and shrubs 2908	pulp content 1460
R. stolonifer	olive 3164 Parlatoria blanchardi, population studies,	volatile constituents 2429, 4826 Passion fruit nutrition
fumigation 7217 post-harvest dips 7217	date pests 811	magnesium, deficiency 1524
stem end rot	Parmacella olivieri	major elements, leaf analysis, sampling
fumigation 7217	ornamental plants, pests 1329	1524 nitrogen 1524
post-harvest dips 7217 Papaw fruit	vegetables, pests 1329 Parsley	nitrogen 1524 NPK 9116
aroma 7171	annual report, German Federal Republic	potassium 1524
colour	7070	Passion fruit pests
harvesting time 4878 heat treatment 4072	enzyme activity, leaf, determination 5897 enzymes, leaf 5895	Australia 6518 Meloidogyne javanica, soil fumigation
composition 8170	glycosides 8001	7168
nitrogen nutrition 842, 1607	biosynthesis 8983	nematodes, Brazil 9126
potassium nutrition 842 firmness 3174	growing, Northern Ireland 4733 nucleic acids, translocation, tissue culture	Passion fruit plant composition 4145
heat treatment, disease control 4072	4734	morphology 7167
irradiation	soilless culture 5487	Passion fruit soil
gamma rays, post-harvest, storage life 2435	tissue culture cell suspension 4732	fumigation Meloidogyne javanica
ionizing, post-harvest, storage life	glycosides, biosynthesis 8983	DD 7168
2461	weed control 6777, 8977	EDB 7168
latex, composition 8170 nitrates, content 3247	Parsley diseases broad bean wilt virus 3940	methyl bromide 7168 Paulownia spp.
ripening	carrot mottle 3940	diseases 7960
bio-chemistry 3174	cucumber mosaic 3940	cucumber mosaic 7961
enzyme activity 3247–3248 nitrates, content 3247–3248	Fusarium spp. 3014 Pythium spp. 3014	Pea alkaloids 5287
sugars, content, nitrogen nutrition 1607	Rhizoctonia solani 3014	alkanes, biosynthesis, inhibition 7742
water, content, nitrogen nutrition 1607	virus 3941	aluminium
Papaw growth substances injury, thiouracil 401	annual report, UK 1934 incidence, German Federal Republic	toxicity enzyme activity 8721
latex, production, ethephon 7216	6781	nitrogen nutrition 7728
Papaw leaf, composition, disease affects	western celery mosaic 3940	phosphorus nutrition 7728
1609 Papaw nutrition	Parsley flower, bud initiation 6117 Parsley pests, Meloidogyne incognita 3014	plant tolerance 6864 varietal resistance 8721
nitrogen 842, 1608	Parsley varieties	amino acids 3753
fruit, composition 1607	Denmark 7071	applied, enzyme activity 7732
phosphorus 842 potassium 842, 1608	forcing 7071 Parsley X celeriac, hybrids 2902	biosynthesis 7739 content, sulphur dioxide 6015
Papaw pests	Parsnip	metabolism 5261
aphids, vectors, mosaic, annual report,	annual report, UK 601	annual report
USA 6383 Rotylenchulus reniformis 2460	insecticides, residues, plant, lead arsenate 1951	Belgium 1131 German Federal Republic 7599
Trichodorus christiei, vectors, mosaic	respiration, root, heat production, storage	Irish Republic 1939
9193	1148	UK 1934, 3611–3612, 4365, 5149,
Papaw seed, morphology 400 Papaw varieties	storage, respiration, heat production	5153, 8584 USA 1130, 4368
Ghana 7215	Parsnip diseases	breeding and selection
Sunrise Solo 1606	Centrospora acerina 6116	disease resistance 6001
Waimanalo 9191 Paper	virus, incidence, German Federal Republic	disease tolerance, Aphanomyces spp.
mats, irrigation, chrysanthemum 8859	6781 yellow fleck virus, annual report, UK	2817 F ₁ hybrids, annual report, USA 36
mulch	1934	leafless forms 2048
disease incidence, tomato 4570 melon (cantaloup and musk) 6814,	Parsnip seed, sorting, air flow 4373	for processing 6001
7679	Parsnip varieties annual report, UK 5149	calcium cell wall, composition 7735, 8730
onion 3762	comparative trials, New Zealand 6115	content, plant 8702
strawberry 6699 tubes, seedling, raising, cauliflower and	Parthenocissus spp.	carbohydrates, translocation 214 cell
broccoli, annual report, UK 1937	anthocyanins 744	division, light, red 4508

Subject Index		106
Pea contd.	Pea contd.	Pea contd.
cell contd.	fluorine contd.	mutants
enlargement	toxicity contd.	photosynthesis 4506
stimulation	seed germination, enzyme activity	proteins, content, seed 8732
fusicoccin, tissue culture 8727–8729	6866 transpiration 3735	nitrates, absorption, growth substances, amino acids 4509
growth substances, tissue culture	frost	nucleic acids
8727–8729	injury, disease incidence, Pseudomonas	biosynthesis
cell wall	pisi 4503	growth substances 221
composition 7725 8730	resistance, hardening, respiration 654	inhibition, growth substances 3751
calcium 7735, 8730 ethylene 7735	fungicides, metabolism, benomyl 655 geotropic responses, ethylene 2059	content, growth substances 4500 metabolism 226
growth substances 7735, 8730	glycosides, metabolism 8731	ethylene 4512
magnesium 8730	growing	growth substances 6012
potassium 8730	Argentina 3728	leaf, development 5289
chlorophyll	Bulgaria 3620–3621	light 6012
biosynthesis light 4505	mechanical harvesting 4496 media, compared 7605	plant nutrition 6870 nucleotides, interaction, growth substance
far-red 4505	peat 7605	1237
red 4505, 6865	Tunisia 4369	nutrients
content 4027	USSR 2050	content
phytochrome relationships 4937 seed 3752	growth flower formation 8726	molybdenum nutrition 5273 phosphorus nutrition 5273
seedling 3752	photoperiodism 8726	nutritional value, proteins 6018
chloroplast	growth-yield relationships 3754	organic acids, biosynthesis 7739
development	harvesting, time of, plant maturity criteria	oxygen, translocation 1233
light 6865	4516	phosphorus
lipids, metabolism 2072 enzyme activity 8725	herbicides absorption	content, plant, growth substances 123 metabolism 2071
enzymes, content 2819, 3742	2,4-D, solar radiation 5283	photoperiodism
grana formation, inhibition 4515	tolerance, terbutryne 4468	flower bud, initiation 7745
saponins, content 7743	enzyme activity, triazines 2070	plant, growth 8726
volume variations, measurement 212	injury	photosynthesis 4506
climate 2049	cyanazine 4501	inhibition, anti-transpirants 3333
cold, resistance, hardening, respiration 654	tolerance, terbutryne 5888 Tordon 22K 2051	plant nutrition 8693 phytochrome
cuticle, development, annual report, UK	trifluralin 4501	biosynthesis 5285
1938	plant, responses, terbutryne 4468	-chlorophyll relationships 4937
electrical activity 3847	proteins	degradation, light, coloured 3736
enzyme activity 1954, 2063, 6009	content	growth substances, endogenous 4514
amino acids 7732 biosynthesis, soil salinity 2815	traizines 2070 triazines, annual report, Irish	pigments, biosynthesis, growth substances
chloroplast 8725	Republic 5150	potassium
diseased plants, Pythium spp. 8791	quality 206	cell wall, composition 8730
growth substances 2067, 2820,	responses, flurenol 4500	content
7736–7737	tolerance	plant 8702
IAA 6010 kinetin 6010	bentazon 8714 menthabenzthiazuron 8714	root, soil salinity 8722 proteins 6018
inhibition 5286, 8724	translocation, 2,4-D, solar radiation	antagonism growth substances 6016
amino acids 217	5283	biosynthesis 7740
leaf 8723	insecticides	content 5288, 7744
determination 5897	absorption, lindane 6863	cotyledons 3753
light 7733 root 7734	metabolism, aldrin 2033 persistence, menazon 4504	disease resistance, Erysiphe communis 7730
aluminium toxicity 8721	translocation, lindane 6863	herbicides 206
growth substances, amino acids	iron	molybdenum nutrition 209
4509	translocation	sulphur dioxide 6015
histological studies 5282	nutrient solution	degradation 3745
soil salinity 8722	composition 4507 pH 4507	nutrients, content, herbicides 4485 pterocarpanoids 6233
root extracts 2033 seed 218, 2061, 8723	irradiation, resistance, plant composition	quality, storage temperature 6872
germination 2818, 5280, 8723	1241	rainfall 2810
fluorine toxicity 6866	irrigation 3308	respiration
ripening 8723 storage 8723	annual report, Canada 1944	cold, resistance 654
	requirements, for processing 8715	frost, resistance 654 plant, growth substances 7738
seedling, herbicides 2070 shoot, nitrogen nutrition 3741	light 6004 blue, leaf, growth 3738	wind 5254
enzymes 5896	enzyme activity 7733	Rhizobium spp., inoculation, yield
biosynthesis 7732	far-red	increase 6003
determination 8724	chlorophyll, biosynthesis 4505	saponins, content, root 7743
diseased plants 8718	growth substances, endogenous 4514	seedling composition 657
etiolated seedlings 6008 leaf 2819, 3740, 5895	leaf, growth 3738 fatty acids, biosynthesis 6013	cotyledon, removal 2823
root 1234, 7692	nucleic acids, metabolism 6012	development, ethylene production
shoot 3742	red	1235
ethylene	cell, division 4508	emergence
cell	chlorophyll, biosynthesis 4505, 6865	soil compaction 5238
division, inhibition 2065	chloroplast, development 6865 ethylene production, inhibition 2059	soil temperature 4447 growth
expansion 2066 wall composition 7735	geotropic responses 2059	seed, size 1228
wall structure 4512	growth substances, endogenous 4514	soil
geotropic responses 2059	leaf, growth 3738	compaction 2053-2054
growth substances, translocation 2059	water, movement 3737	types 2053–2054
internode swelling 4512	yellow, leaf, growth 3738	sodium, content, root, soil salinity 8722 solar radiation
nucleic acids biosynthesis 2065	lipids, metabolism, leaf, development 2072	herbicides
metabolism 4512	magnesium	absorption 5283
production, growth substances 2069	cell wall, composition 8730	translocation 5283
root, development 2821	content, plant 8702	storage, temperature 5821
treatment 222–223	maturity, forecasting 4516	sugars
xylem formation 4511	methyl 2-benzimidazolecarbamate, translocation 655	metabolism growth substances 2058
fluorine toxicity 3735	mitochondria, saponins, content 7743	light 2058

Pea contd.	Pea diseases contd.	Pea growth substances contd.
sugars contd.	Pseudomonas pisi contd.	nucleic acids
metabolism contd.	varietal resistance 721	biosynthesis, inhibition, MH 3751
phytochrome 2058	P. spp. 651	content
temperature 2058	P. syringae 651	chlormequat 4500
sulphur dioxide	P. viridiflava '651	2,4-D 4500
amino acids, content 6015	Pythium spp.	TIBA 4500
proteins, content 6015	control 6920	metabolism, GA 6012
taxonomy, chemotaxonomy 6233	host enzyme activity 8791	phosphorus, metabolism, GA 3746
temperature 6004	P. ultimum, seed treatment 7731	pigments, biosynthesis, trisporic acid
carbon isotope changes 3739	seed-borne mosaic, transmission, seed	7738
leaf	7729	respiration, trisporic acid 7738
phosphorus, content 2060	subterranean clover stunt, vectors 6846	responses
sulphur, content 2813	symptomless virus 6006	chlormequat 1238, 4500
seed		phosphorus nutrition 2068
development 5274	top yellows virus, varietal resistance	2,4-D ⁴⁵⁰⁰
disorder incidence 5274	1225	GA 1238
tissue culture	virus, annual report, Netherlands 6772	hydroquinone 3750
cytokinin activity 6017	yellow mosaic, vectors 6846	IAA 1238
embryo, exudates 4499	Pea disorders, hollow heart 5274–5275	Phosphon, phosphorus nutrition 206
root 658	Pea flower	resorcin 3750
growth substances, treatment 2073,	bud drop, growth substances 7745	SADH 1238
6010	bud initiation	TIBA 4500
shoot	growth substances 7745	vanillin 3750
fusicoccin	photoperiodism 7745	root
treatment	seed vernalization 7745	formation on cuttings
media pH 8727	formation, plant growth 8726	GA 3747
respiration 8728	Pea growth substances	IAA 3747
growth substances	absorption	growth
treatment 6868	foliar, 2,4-D 2032	IAA 6010-6011
media pH 8727	phenoxyacetic acid and derivatives 225	inhibition, IAA 3749
respiration 8728	amino acid absorption, root,	root nodule, formation, ethephon 207
shoot-tip, leaf bud development 2064	chloramphenicol 1239	shoot
transpiration	apical dominance	growth
antitranspirants 3333	GA 3748	auxins 2822
fluorine 3735	IAA 3748	GA 2823
vitamin treatment	bud, development, GA 220	IAA 6868
bud development 220	cell	stem, elongation 221
leaf, composition 6014	division, inhibition, 2,4-D 2065	translocation
water, movement, light 3737	expansion	IAA 216, 2821, 4513, 5279
water relations	2,4-D 2066, 8727	kinetin 216
growth substances, content 3743	IAA 8727-8729	xylem, formation, 2,4-D 4511 Pea leaf
leaf 5278	NAA 8727 cell wall	bud development, tissue culture 2064
nutrition 213	composition	composition 3675
weed control 206, 2811, 3731, 4501,	IAA 7735	protein 209
5342, 5680, 8588	kinetin 7735, 8730	vitamin treatment 6014
annual report, UK 5885, 8583 Avena spp., annual report, German	endogenous 2067, 3744	development
Federal Republic 7598	determination, xanthoxin 3719	lipids, metabolism 2072
review 5270	light, red 4514	nucleic acids, metabolism 5289
wind, respiration 5254	plant, apical dominance 4510	fatty acids, biosynthesis 6013
yield, estimation, sampling 2047	shoot 1236, 6011	ferredoxins 1240
yield-growth relationships 3754	translocation, ethylene 2059	growth
Pea diseases	wilting 3743	light
Aphanomyces euteiches, nematode	enzyme activity	blue 3738
relationship 211	auxins 2820	far-red 3738
A. spp. 2974	cytokinins 2820	red 3738
tolerance 2817	root, amino acids 4509	yellow 3738
Aspergillus ruber 6860	shoot, IAA 7736-7737	nutrient absorption, manganese,
seed, germination 1226	ethylene	surfactants 1136
enation mosaic	production	nyctinasty 6235
alternative hosts 5276	abscisic acid 2069	phosphorus, content, temperature 2060
host enzymes 5281	GA 2069	Pea nutrition 6004
host proteins 2816	IAA 2069	calcium 3733
Erysiphe communis	kinetin 2069	cobalt, nitrogen, fixation 2814
host proteins, content 7730	flower bud	general
varietal resistance 7730	drop, GA 7745	deficiency, nucleic acids, content 68°
E. polygoni, seed treatment 6861	initiation, GA 7745	nucleic acids, content 6870
Fusarium martii	growth inhibition	iron
host-pathogen relationships 2055	IAA 3748	absorption
_toxins 2055	trisporic acid 7738	nutrient solution
F. oxysporum	interaction	bicarbonate content 4507
enzyme, content 8718	applied	composition, pH 4507
f. pisi 2056	aminozide, and endogenous 3744	major elements, ion exchange 3732
assessment methods 5165	chlormequat, and endogenous 3744	manganese
infection process 6862	p-coumaric acid, and endogenous	amino acids, composition 5284
root exudates 8719	3744	application, foliar, surfactants 1136
varietal resistance 6007, 6859	Phosphon-D, and endogenous 3744	leaf, absorption, surfactants 1136
secondary invaders 6862	thioureidobenzoic acids, and	minor elements
F. roseum, secondary invaders 6862	endogenous 3744	availability, nitrogen nutrition 8589
F. solani 2057	applied and endogenous 2067	ion exchange 3732
secondary invaders 6862	2,4-D, BA application 2065	pest incidence 1232
F. spp., control 5277	IAA, GA application 3748	sources 8589
leaf roll alternative hosts 8717	nucleotides 1237	toxicity, nitrogen nutrition 8589
indicator plants 8717	proteins, GA 6016	molybdenum 6003
Iran 8707	seed treatment, vernalization 7745	calcium content 5273
mild mosaic, alternative hosts 4502	tannins, GA 2825	nitrogen, fixation 2814
Peronospora viciae 1230	tryptophan application GA 3747	nitrogen content 5273
Pseudomonas fluorescens 651	IAA 3747	phosphorus content 5273 phosphorus nutrition 5272–5273
Pseudomonas pisi 650-651	metabolism, IAA 6869	proteins, content 209
frost, injury 4503	NAA translocation, DPX1840 2824	nitrogen
incidence 4503	nitrates, absorption, amino acids 4509	aluminium toxicity 7728
	, , , , , , , , , , , , , , , , , , , ,	The contract of the contract o

nitrates, absorption, amino acids 4509

aluminium toxicity 7728

ubject Index		106
ea nutrition contd.	Pea seed contd.	Pea varieties contd.
nitrogen contd.	development, temperature 5274	disease resistance contd.
enzyme activity, shoot 3.741	drying	top yellows virus 1225
fixation	silica gel 1137	herbicides, tolerance 8714
cobalt nutrition 2814 molybdenum nutrition 2814	viability 6871 germination	Pakistan 2809
host-pathogen relationships, Fusarium	cytological changes 656	processing canning 6002
martii 2055	disease damage 1226	freezing 1242
leaf analysis 6005	enzyme activity 2062, 2818, 5280,	USSR 649
phosphorus nutrition 7728	8723	Sardinia 3729
sources 9580	fluorine toxicity 6866	winter hardiness 3729
minor elements 8589 minor elements toxicity 8589	hollow heart disorder 5274–5275 metabolic processes 215	Peach amino acids, content, leaf 5773
NPK, photosynthesis 8693	respiration 1227	annual report
phosphorus 3733, 5272	soil, salinity 210	Australia 450, 5693
aluminium toxicity 7728	water relations 1227, 6860	Canada 2515, 8314
interaction, growth substances 2068	organic acids	Cyprus 3345
molybdenum nutrition 5272-5273 nitrogen content 5273	content ripening 5290	Italy 6507 USA 24, 451, 1706, 3348-3349, 4945,
nitrogen nutrition 7728	varietal differences 5290	8319
pest incidence 1232	phosphorus, content, seed, size 1228	Yugoslavia 3350
proteins, biosynthesis 6005	polyploid cells 6867	ascorbic acid, content, NPK nutrition
potassium	production, harvesting, time of 6871	6629
pest incidence 1232 plant, composition 5243	proteins content 4941	breeding and selection 3481 annual report, Australia 8313
proteins, biosynthesis 6005	mutants 8732	early fruiting 4242
sodium, plant, composition 5243	quality, herbicides 206	interspecific hybridization 4244
sulphur, requirements, temperature 2813	ripening	calcium
ea pests	enzyme activity 8723	content
A fiber 4504	organic acids 5290	flower 6631
A. fabae 4504 A. gossypii, vectors, virus 6846	proteins, biosynthesis 6867 sorting, air flow 4373	fruit 6631 carbohydrates
Delia platura, infestation source 8720	sowing	metabolism
Ditylenchus dipsaci 3878	dates, Pakistan 2809	leaf 5773
Macrosiphum euphorbiae, vectors, virus	spacing 2049, 3754	seasonal variations 3479
6846 M pici	storage enzyme activity 8723	chilling requirements 3480
M. pisi host nutrition, foliar 1232	methods compared 6860	cover crops Festuca rubra, pest incidence,
predators 1232	temperature 208	Pratylenchus penetrans 7452
Myzus persicae, vectors, virus 6846	treatment	grass sward 1017
Phytomyza atricornis 652–653	fungicides 3622	Sorghum vulgare, pest incidence,
Pratylenchus penetrans 1231	benomyl 6861 captan 5277	Pratylenchus penetrans 7452
root rot relationship 211 ea plant	chloroneb 7731	cyanide, toxicity, interstocks 4260 defoliation
composition 4145	thiram 7731	chemical 6510-6511
amino acids 5284	growth substances	growth substances 6511
soil salinity 210	GA 4498	dormancy
ea pod irradiation, gamma rays, post-harvest,	IAA 4498 kinetin 4498	chlorogenic acid, content 7453 growth substances, endogenous 5758
storage life 2074	2-hydroxethylhydrazine 224	naringenin, content 7453
storage, temperature 6872	mutagens 205	drought
'ea root	Rhizobium leguminosarum 208, 5271	photosynthesis 908
amino acids	sodium glutamate 5271	plant
absorption calcium 1239	Rhizobium leguminosarum 4497 vernalization	cell numbers 908 composition 908
enzyme treatment 1239	flower bud initiation 7745	resistance
growth substances, chloramphenicol	interaction, growth substance	frost resistance 7444
1239	treatment 7745	stomata
composition 2071	viability 6871 Pea shoot	number 7444 size 7444
development ethylene 2821	apices, mechanical stresses 7803	respiration 908
growth substances 2821	composition	economics
enzyme activity, histological studies 5282	abscisic acid 1236	insecticides, application, Italy 4153
growth 2052	ribonucleosides 219	orchard depreciation 4250
growth substances 6011 IAA 6010	Pea soil aeration, root, growth 2812	enzyme activity flower bud, carbohydrates, metabolism
kinetin 6010	compaction	3479
inhibition, growth substances, IAA	root, growth 2053	fruit
3749	seedling emergence 5238	browning 5044
soil	seedling growth 2054	damage causes browning 82
aeration 2812 compaction 2053–2054	moisture 6004 seedling growth 2053	disorders 5044 senescence 5044
oxygen concentration 2812	oxygen concentration, root, growth 2812	leaf
nitrogen, content 658	salinity	diseased plants 5771
nodule, enzyme activity 1229	amino acids, biosynthesis 2815	light intensity 3491
nodule bacteria	enzyme activity 2815, 8722	shoot, carbohydrates, metabolism 347
bacterial contamination 4469 enzyme activity, nitrogen, fixing 1229	plant, composition 210 plant tolerance 3734	ethylene fruit, abscission 2643
nodule formation 207	potassium, content, root 8722	leaf, abscission 2643
cobalt nutrition 2814	sodium, content, root 8722	production, stressed branches 911
insecticides 652	seedling emergence 4447	fatty acids, seed 8424
molybdenum nutrition 2814	types, seedling growth 2053–2054	growth substances, GA 5774
nitrogen nutrition 2814 sodium glutamate 5271	Pea varieties aluminium, toxicity, resistance 8721	light, intensity 3491
nucleic acids, content 658	annual report	forcing, plastic films 3480
proteins, content 209, 658	UK 1937	frost
secretion, Rhizobium leguminosarum	USA 1935	injury
growth 8716	Zambia 8587	bud developent 1709
sugars, metabolism 7741	comparative trials, Bulgaria 3730 disease incidence, seed-borne mosaic	flower bud 4235 protection
amino acids, content, mutants 8732	7729	heaters 28
composition, processing 649	disease resistance	plastic films 3358
damage, Aspergillus ruber 1226	Fusarium oxysporum, f pisi 6859	resistance 5031

1070		Hollicultulal Abstracts 1975 vol. 45
Peach contd.	Peach contd.	Peach contd.
frost contd.	nitrogen	as windbreaks 4294
resistance contd.	content	winter hardiness 4251, 5020
drought resistance 7444	flower 6631	Peach bud
flower bud development 7440	fruit 6631	development
herbicides, dichlobenil 1819	nutrient absorption, nitrogen, nutrition	chlorogenic acid, content 7453
varieties 1818	466	naringenin, content 7453
fruiting, precosity 3481	phosphorus	dormancy
fungicides 3320	content	chlorogenic acid, content 7453
fruit, ripening, benomyl 2632	flower 6631	naringenin, content 7453
residues	fruit 6631	Peach diseases
determination, binapacryl 7324	translocation 3478	Agrobacterium radiobacter
fruit, DCNA 5780	photosynthesis 7325	biological control 443
respiration	drought 908	var. tumefaciens, biological control
flower bud 4951	planting	2642
leaf 4951	high density, Switzerland 904	Armillaria mellea, pathogenicity tests
translocation, oxycarboxin, growth	survey, Switzerland 904	1020
substances 5707	pollen	canker 5770
growing	germination, morphology 8330 sterility 7454	Cladosporium carpophilum, control 7448 dark green sunken mottle
high altitudes, India 7311 Hungary, review 6622	potassium	host reactions 6632
Italy, for processing 7442	content	incidence, Australia 5038
Portugal, review 2518	flower 6631	indexing 3473
for processing 6623	fruit 6631	eastern X-disease, plant composition
Thailand 77	processing	5769
USSR 4251	canning, varietal behaviour 3458, 7442	Gloeosporium laeticolor, control 7448
Venezuela 8119	fruit, quality, growth substances 1830	Glomerella cingulata, control 7448
harvesting	production and trade, Hungary 6622	Leucostoma cincta 80
labour requirements 6627	proteins, biosynthesis 5773	incidence, pruning and training 8455
mechanical	pruning and training	L. persoonii 80
equipment 457, 1831	flower bud, initiation 3482	line pattern 4948
tractor-drawn frame 4267	fruit, size 1019	Monilinia fructicola 1832
time of, fruit ripening 8463	"fruit-branch concentration" method	fruit dips 1832
heat treatment, fungus control, fruit	5035–5036	heat treatment 1832
6619	goblet 4255, 6627	peach X- 2641
herbicides 3322	labour requirements 6627	Phomopsis spp., infection process 7449
frost, resistance, dichlobenil 1819	irrigation 4253	Phymatotrichum omnivorum 4257
injury	methods compared 4254-4255, 5037,	plum pox 4948
bromacil 8454	6626, 7446, 8379	prune dwarf 4948
dichlobenil 1819	disease incidence 8455	host reactions 6632
GS-21704 5032	palmette 2566, 4255, 6627, 8455	indexing 3473
terbacil 452	labour requirements 6627 time of 5034	Prunus necrotic ring spot virus 6633
tolerance 3510 high density planting, Switzerland,	replanting	host reactions 6632
statistics 8324	calcium nutrition 1821	incidence, Australia 5038
hybrids 3465	nitrogen nutrition 1821	indexing 3473
insecticides 3318	soil, fumigation, nematode control	Prunus stem pitting virus, detection, root
application, economics 4153	1021, 3475	chip inoculation 512
fruit, thinning, DNOC 4263	report	Pseudomonas mors-prunorum, population
residues	Australia 3344	studies 5040
arsenic 3329	USA 8320	P. syringae 2083
determination, monocrotophos 7302	respiration	raspberry ring spot virus 510
interstocks, cyanide toxicity 4260	leaf, light intensity 3491	resistance, own-rooted plants 7443
iron	plant, drought 908	Rhizopus stolonifer 5780
content	sodium	Sclerotinia fructicola 7450, 8475
flower 6631	content	control 7448, 8305
fruit 6631	flower 6631	heat treatment 6619
irrigation	fruit 6631	incidence 6634
fruit, composition 6629, 7447	sterols, seed 8424	post-harvest dips 6619, 7481
leaf, composition 7447	stomata 7444	Sphaerotheca pannosa, host morphology
pest incidence 5033 plant nutrition 6629, 7447	number, drought resistance 7444	8458 S. cpp. 513
requirements 4160, 5033, 7445	size, drought resistance 7444 storage	S. spp. 513 stem pitting 3474
root, growth 6628	controlled atmosphere	growth substances, endogenous 5039
schedules, compared 1820	chilling injury 5778–5779	incidence 5768
shoot, composition 7447	hypobaric 7326	stem pitting virus 1823, 5766
labour requirements	fruit composition 7326	soil sterilization 1824
harvesting 6627	harvesting, time of 8463	vectors, Xiphinema americanum 1822
pruning and training 6627	pre-cooling, equipment 2646	Stereum purpureum, incidence 7451
lead, residues 4936	temperature	Taphrina deformans
light	bud, development 1709	annual report, German Federal
intensity	flower bud, drop 8461	Republic 6506
enzyme activity 3491	tissue culture	control 7448
flowering 3491	callus	host enzyme activity 5771
leaf	cyanide toxicity 4260	resistance, own-rooted plants 7443
ascorbic acid, content 3491	grafting compatibility studies 3567	tomato black ring virus, control, heat
chlorophyll, content 3491	embryo 5772	treatment 1809
photosynthesis 7325 respiration 3491	mesocarp	virus, interactions 6632
magnesium	carbon dioxide, treatment 4261	Xanthomonas pruni control 7448
content	ethylene, treatment .4261 growth substances, treatment .4261	varietal resistance 1816
flower 6631	transpiration 1023	Peach disorders
fruit 6631	transport	apoplexy, fungus relationships,
manganese	containers, refrigerated 7426	Phytophthora spp. 454
content	in water 1718	browning, enzyme activity 5044
flower 6631	tree, volume, estimation 8452	chlorosis, iron nutrition 4947, 8457
fruit 6631	vitamin E, seed 8424	soft suture, fluorine toxicity 5767
mulching	water, content, drought resistance 7444	woolly breakdown, enzyme activity 5044
hay 1017	weed control 78, 452, 1016-1017, 4252,	Peach flower
weeds 4256	5032, 7316, 8454	bud development, frost resistance 7440
mutagens, ethyl methane sulphonate	limited 79	bud drop, temperature 8461
6635	pest incidence, Pratylenchus penetrans	bud initiation
nematicides, injury, Di-Trapex 4258	7452	growth substances 5774, 8460

Subject Index		1071
Peach flower contd.	Peach growth substances contd.	Peach leaf contd.
bud initiation contd.	endogenous contd.	chlorophyll, content, light intensity 3491
growth substances contd.	fruit 5776	composition
GA 1826 pruning and training 3482	abscission 3483 plant, dormancy 5758	irrigation 7447 potassium nutrition 3471
development 7441	seed 2523, 2637, 4249	manganese, content, iron nutrition 8457
growth substances, endogenous, content	seedling 5772	morphology, growth substances 6613
5042	ethylene	nitrogen
morphology, growth correlations 4164	production	content
nutrients, content 6631	aminozide 4264	iron nutrition 8457
Peach fruit	ethephon 2643, 4264	seasonal variations 508
abscission ethylene 2643	flower bud initiation	soil management 1017
growth substances 5775	GA 1826, 5774	phosphorus content
amino acids	morphactins 8460	iron nutrition 8457
content 6834	flowering, GA 5774	seasonal variations 508, 6630
varietal differences 4268	fruit	potasșium
sugars, content 8667	abscission, GA 5775 colour	content iron nutrition 8457
growth substances 1830, 8462	aminozide 1026, 1830, 8462	seasonal variations 508, 6630
ethephon 1829	ethephon 1829	soil management 1017
nitrogen nutrition 3470	firmness	removal, chemical 6510-6511, 7314
composition 7327, 8463	aminozide 1830, 6636	temperature, photosynthesis 7325
fluorine application 5767	ethephon 1829	zinc, content, iron nutrition 8457
irrigation 7447 storage, controlled atmosphere,	loosening, ethephon 2643 maturity	Peach nutrition Algifert
hypobaric 7326	aminozide 4264	fruit
volatile constituents 5793	ethephon 4264	firmness 4265
development 4264	parthenocarpy, GA 5043, 5775	ripening 4265
drop 1828	ripening	storage life 4265
growth substances 5775	aminozide 1026, 1830, 2632, 4264,	calcium, leaf analysis 1018
ethylene production	5776, 8462 3-CPA 83	general leaf analysis 7369
growth substances	ethephon 83, 1829, 4264	sampling 3469
aminozide 4264	size	iron
ethephon 4264	aminozide 6636	chlorosis 4947
firmness 5767	GA 5043	disorder incidence, chlorosis 8457
fluorine application 5767 growth substances 1830, 6636	splitting, ethephon 83 thinning	manganese content 8457 nitrogen content 8457
ethephon 1829	chlorflurenol methyl ester 4262	phosphorus content 8457
loosening, growth substances, ethephon	CPA 1024	potassium content 8457
2643	3-CPA 83, 2645, 3483, 3485	zinc content 8457
maturity	2,4-D 6613	magnesium, leaf analysis 1018
growth substances, ethephon, aminozide 4264	ethephon 83, 2644, 3483, 3485 flurenol n-butyl ester 4262	minor elements, leaf analysis 2639 nitrogen 466, 1019
tests 5777	MH 6613	fruit, maturity 8456
nitrogen, content, varietal differences	morphactins 5743	leaf analysis 1018
4268	NAA 6613	phosphorus absorption 466
number, pruning and training 5035	naphthylphthalamic acid 1827	potassium absorption 466
nutrients, content 6631	N-1-naphylphthalamic acid 1828 1,1,5,5-tetramethyl-3-	sources fruit
organic acids, sugars, content, seasonal variations 6522	dimethylaminodithiobiuret 515	colour 3470
parthenocarpy, growth substances 5043,	2,4,5-T 6613	ripening 3470
5775, 5775	fungicides	leaf analysis 3470
quality, pruning and training 5035	translocation 5707	NPK 508, 7447
fluorine application 5767	aminozide 5707 chlormequat 5707	application, methods compared 2640 fruit
fungicide treatment, benomyl 2632	injury	composition 6629
growth substances 1830, 8462	chlorflurenol methyl ester 4262	size 508
aminozide 1026, 2632, 4264, 5776	3-CPA 3485	irrigation 6629
3-CPA 83	ethephon 7314	leaf analysis 492, 2639, 3472
ethephon 83, 1829, 4264	flurenol n-butyl ester 4262	phosphorus 8456
nitrogen nutrition 3470 oil treatment 2632	BA, GA application 2637	leaf analysis 1018 potassium
senescence, enzyme activity 5044	GA, BA application 2637	leaf analysis 1018, 3471
size	leaf	nematicide injury, reduction 4258
growth substances 5043, 6636	abscission, ethephon 2643	root analysis 3471
irrigation 1820	morphology	yield reduction 8456 survey, Australia 1813
nutrition 508 pruning and training 1019	aminozide 6613 2,4-D 6613	WUXAL 4198
splitting, growth substances, ethephon 83	MH 6613	Peach pests 1696
sugars, content 6834, 8667	NAA 6613	Anastrepha fraterculus 8459
thinning 1025, 4263	2,4,5-T 6613	aphids
chemical 456	removal, ethephon 6511, 7314	fungal parasites 1022
time of, seed development 3484	responses, chlormequat, review 8310 shoot	predators 1022 Ceratitis capitata 8459
growth substances 1828, 2644–2645, 3483, 3485, 6613	morphology	Cydia molesta 5041
CPA 1024	aminozide 6613	integrated control 514
3-CPA 83	2,4-D 6613	Eulecanium coryli 3476
ethephon 83	MH 6613	Euzophera semifuneralis 3477
morphactins 4262, 5743	NAA 6613 2,4,5-T 6613	Grapholitha molesta, control 7448 Hyalopterus arundis, control 7448
naphthylphthalamic acid 1827 1,1,5,5-tetramethyl-3-	vascular development	Lyonetia clerkella, control 7448
dimethylaminodithiobiuret 515	GA 5039	Meloidogyne incognita 4258
insecticides, DNOC 4263	IAA 5039	rootstock resistance 6624
mechanical 456, 7455	Peach leaf	mites 3324
methods compared 7455	abscission	biological control 29
Peach growth substances	ethylene 2643 growth substances, ethephon 2643	Myzus persicae, control 7448 Panonychus ulmi, integrated control 514
endogenous 5758 determination, gibberellins 5776	ascorbic acid, content, light intensity	Pratylenchus penetrans
diseased plants 5039	3491	population studies
embryo, seed development 5772	cell sap, concentration, seasonal variations	cover crops 7452
flower 5042	916	herbicides 7452

plastic, films 1035

Peach pests contd.	Peach soil	Pear contd.
Pratylenchus contd.	chlorine, toxicity 509	enzyme activity
Pratylenchus vulnus, soil fumigation	fumigation, Pratylenchus vulnus 3475	disease resistance, Alternaria kikuchiana
1021. 3475	management, methods compared 1017	7458
review, Bolivia 5671	moisture, soil management 4256	fruit
Serrodes partita, traps, light 4259	salinity 5765	ripening 88, 1031, 8472
Synanthedon hector, control 7448	tolerance, Crimea 509	storage 4284
S. pictipes 3477	sickness 3475	leaf
Tetranychus pacificus 81	sterilization	light intensity 3491
biological control. 81	chemicals, virus incidence 1824	phenolic compounds metabolism
Tetranychus telarius, irrigation 1820,	steam, virus incidence 1824	6645
5033	structure, soil management 4256	Yuzuhada disorder 1031
Xiphinema americanum, virus vectors,	Peach varieties	enzymes, determination, fruit 4278
stem pitting virus 1822	Albatros 3565 annual report, Belgium 6503	flowering, light, intensity 3491
Peach plant	Austria 4266	frost
nitrogen, content, seasonal variations 508	Brighton 8453	injury, bud developent 1709
phosphorus, content, seasonal variations	Canada 1724	protection, heaters 28
508	canning, Australia 74	resistance, electrical conductivity 4994
potassium, content, seasonal variations	comparative studies, South Africa 8322	fungicides 3320
508	comparative trials 504	residues
Peach × plum, hybrids 4244	disease resistance 1816	determination
Peach propagation 26	virus 6632	benomyl 6501
air-layering 1015	Eden 8453	binapacryl 7324 thiabendazole 6501
budding, budwood, treatment, mutagens 6635	frost resistance 1816, 1818 fruit	fruit, benomyl 1698
cuttings	amino acids, content 4268	grading, annual report, Netherlands 23
root, treatment, growth substances, IBA	ripening, time 3457	growing
8323	Ingwe 3565	Crimea 2647
shoot	Italy 75, 3460–3464, 7442	economics, Australia 1721
age 4178	Naĭ-ranna Zh''lta 506	high altitudes, India 7311
part 4178	Naĭranna Zh''lta 3466	Portugal, review 2518
source plants, treatment, growth	Nishiki 5030	terraced slopes 6549
substances 1809	Orion 3565	grubbing 3342
treatment	processing 5028–5029, 6623	harvesting
growth substances 1809, 4178	canning 3458–3459, 7442	annual report, Canada 5694
IBA 3467	freezing 1814–1815	book 5706
2-methyl-5-oxybenzofuran-3-	Prodigiosa Morettini 4248	containers, trays, liners 1033
carbonic acid 3467	register, USA 3356, 4156 review, Italy 6625	mechanical
grafting, dormant scions during growing season 77	Rhodesia 5764	annual report, UK 5752
own-rooted plants, disease resistance	Rumenya 3466	equipment 457
7443	Tunisia 4155	time of, fruit maturity tests 1789-1790
Peach rootstocks	USA 5027	herbicides 3322
almond, compatibility 3468	winter hardiness, annual report, Canada	injury
almond X peach hybrid 2638	5696	diuron 7357
apricot X bessey cherry X cherry plum	Yugoslavia 3456–3457	metobromuron 7357
hybrid 1014	Pear	residues
breeding and selection, annual report,	acaricides, residues, fruit, Plictran 1770	soil
Tunisia 4944	annual report	chlorthiamid 6542
chlorosis resistance 2638	Australia 450, 5693	dichlobenil 6542
comparative trials	Belgium 902, 2517, 6503 Canada 8314	toxicity dicamba 2495
apricot 76 myrobalan 76	German Federal Republic 4943	picloram 2495
peach 76	Italy 6507	yield increase, simazine 8466
plum 3468	Netherlands 4956, 5697	high density planting, Switzerland,
Prunus insititia 3468	UK 903, 3373, 8318	statistics 8324
P. spp., hybrids 76	USA 24, 3348	hybrids 3487
seedling 3468	Yugoslavia 3350	insecticides 3318
disease resistance 2638	ascorbic acid, content, fruit, varietal	application, economics 4153
myrobalan 1014	differences 7416	residues 3328
nematode resistance 2638	bactericides, resistance, Erwinia	arsenic 3329
nutrition, NPK 3403 Palmirskogo peach 1014	amylovora, streptomycin 5787	determination, monocrotophos 7302
peach 2638	biennial bearing growth substances	fruit chlorinated hydrocarbons 5740
pest resistance, Meloidogyne incognita	aminozide 4279	Perthane 2500
6624	chlormequat 4279	interstocks 8465
plum 2638	breeding and selection 2648	for Beurré Bosc 5784
propagation	annual report	irrigation, cover crops compared 2649
cuttings	Canada 2515	lead
treatment	Sweden 6508	determination 4389
fungicides 1817	USA 451, 4945	residues 4936
growth substances 1817, 3509	disease resistance	light 2405
Prunus persica var. aposarca 4243 -scion relationships 3468	Alternaria kikuchiana 6642	growth substances, absorption 3495
transpiration 1023	Erwinia amylovora 6637 Venturia nashicola 6642	intensity enzyme activity 3491
St. Julien A, propagation 3509	cadmium, determination 4389	flowering 3491
transpiration 1023	cover crops	leaf
Peach seed	grass sward 1028	ascorbic acid, content 3491
development, fruit, thinning 3484	irrigation compared 2649	chlorophyll, content 3491
germination 507	defoliation	respiration 3491
metabolic processes 2523	chemical 5716, 6510-6511	manganese, toxicity, calcium nutrition
growth substances, content 5772	growth substances 6511	3492
treatment	drought	mulching 8466
growth substances 2637	photosynthesis 908	clover-grass mixture clippings 936
hydrochloric acid 507 scarification 507	plant cell numbers 908	leaf, potassium content 938 sawdust 4191
soaking, cold water 507	composition 908	mutants 6530
stratification	respiration 908	nucleic acids, applied, pollen, germination
endogenous growth substances 4249	economics	2651
growth substances, content 2637	EEC 3342	packing
metabolic processes 2523	insecticides, application, Italy 4153	book 5706
Peach shoot, composition, irrigation 7447	UK 3342	plastic, films 1035

ubject Index		107
ear contd.	Pear contd.	Pear disorders contd.
phenolic compounds, content, leaf, disease	tissue culture contd.	cork, calcium deficiency 3493
resistance, Alternaria kikuchiana	embryo contd.	fruit russetting, manganese toxicity 3492
6645	media 2546	internal browning 3499, 5792
photosynthesis	transport	leaf browning, water relations 516
drought 908	book 5706	leaf burn, weather conditions 1835
productivity, estimation 5053	containers, trays, liners 1033	premature ripening, temperature 1841
planting	water relations, leaf browning 516	scald 518
high density 3489 Switzerland 904	weed control 452, 2495, 6542, 7357 annual report, UK 8316	fruit storage 1800
spacing 5046	nurseries 7357	superficial browning, fruit storage 2599
leaf, water content 1030	windbreaks, disease incidence 85	vascular browning 518
pruning and training 3489	winter hardiness, varietal differences	Yuzuhada disorder 1031
survey, Switzerland 904	5045	Pear flower
systems, compared, light interception	wound healing, treatments, Santar 4207	bud development 5789
4960 pollen	Pear diseases	growth substances 87
amino acids, content 5744	Agrobacterium tumefaciens, rootstock treatment, pre-planting 4207	bud initiation 2650 growth substances 8468
germination	Alternaria alternata, post-harvest dips	aminozide 1840, 4279
media 5790	5007	chlormequat 1840, 4279
nucleic acids 2651	A. kikuchiana	GA 1840
temperature 5790	host enzyme activity 7458	inhibition, growth substances 7461
pollen tube, growth, temperature 6648	host phenolic compounds 6645	nitrogen nutrition 2530
pollination 2652, 3496 artificial 6647	resistance 7458	phosphorus nutrition 2530 rootstocks 2530
cross- and self- compared, fruit set	breeding and selection 6642 varietal resistance 6645	soil management 2530
6647	Australia 6518	varietal differences 7460
fruit	Botrytis cinerea, post-harvest dips 5007	development, growth substances,
parthenocarpy 6649	decline 4272, 4948	endogenous 4280
set 6649	annual report, German Federal	pistil, amino acids, content 5744
pollinating varieties 517, 4273, 5789	Republic 6504	Pear fruit
production and trade EEC 3342	decline virus 1836 Entomosporium maculatum 8478	ascorbic acid, content, varietal differences 7416
UK 3342	Erwinia amylovora 3494, 4275, 6643	calcium
pruning and training	alternative hosts 6519	content
mechanical 4230	annual report, Netherlands 5698	varietal differences 6606
equipment 4230, 5703	as an epiphyte 5787	Yuzuhada disorder 1031
methods compared 3489	hawthorn windbreaks 85	colour, growth substances 3500
fruiting 6641	incidence 4274, 5049	composition 7327
time of 6640 trellising, growth correlations 6639	resistance, breeding and selection 6637 varietal resistance 3486, 5049, 5786	storage 5792 controlled atmosphere, hypobaric
radioactivity, natural 1843	vectors	7326
replanting, soil, fumigation, nematode	Minettia spp. 5787	volatile constituents 5793
control 5728	Pegamya spp. 5787	development
respiration	fruit rots 4227	growth substances, endogenous 4280
fruit, storage 5792	fruit storage 4226	temperature 6648
leaf, light intensity 3491	Gymnosporangium spp., annual report,	drop, growth substances 8469
plant, drought 908 storage 5055	Canada 3370 mosaic, yield reduction 4205	flavour, growth substances, 2,4-D 3500 flower bud, initiation 2650
coatings, plastic 1035	Mucor piriformis 4285	irradiation, gamma rays, post-harvest
cold 3498	necrotic spot, indicator plant selection	1034
disorder incidence 1800, 3499, 5792	6642	maturity
enzyme activity 5792	Penicillium expansum, post-harvest dips	growth substances 8469
fruit	5007	indices 3497
composition 5792	Phomopsis mali 1755	tests 1789–1790, 3427
enzyme activity 4284 respiration 5792	Pseudomonas syringae flower infection 4276	organic acids content
varietal behaviour 8471	population studies 4277	seasonal variations 6522
containers, trays, liners 1033	red mottle 4948	storage containers, trays, liners 103
controlled atmosphere 5002	ring pattern mosaic 4948	parthenocarpy 2652
disorder incidence 3499, 5792	stony pit 4948	growth substances, endogenous 4280,
enzyme activity 5792	vein yellows 4948	8470
fruit, composition 1035, 5792 hypobaric 7326	yield reduction 4205 Venturia nashicola, resistance, breeding	pollination 6649 varieties 4273, 6649
respiration 5792	and selection 6642	phenols, content 1031
varietal behaviour 6650	Venturia pirina	phosphorus, content, varietal differences
dips	control 4212, 8393	6606
disease control	post-harvest sprays 7389	pigments 58
Alternaria alternata 5007	soil pH 5785	potassium, content, varietal differences
Botrytis cinerea 5007 Penicillium expansum 5007	virus annual report, German Federal	6606 quality
scald control	Republic 6506	growth substances, review 1792
DPA 1800	control 7320	review 6597
ethoxyquin 1800	fruit symptoms 2575	respiration, storage 5792
diseases 4227	host reactions 2528	ripening 5055, 6651
fruit composition 7326	-tested plants	biochemistry 3427, 3497
growth substances 7407	annual report, German Federal Republic 6505	enzyme activity 88, 1031, 8472
packing methods compared 3498	EMLA scheme 2528	ethylene, production 5791 growth substances 7407
plastic bags 5747 rots 3499	Special Stock Certification Scheme	abscisic acid 1842
Mucor piriformis 4285	7320	inhibition, growth substances 7462
temperature 1035, 4283	German Democratic Republic 7321	lignin, formation 1031
disorder incidence 3499	Pear disorders	pollination 2652
water loss 3177	bark necrosis, manganese toxicity 3492	water loss, storage 3177
temperature 1700	black calyx-end, rootstock-scion	set
bud, development 1709	relationships 7456	growth substances 87, 7461
fruit, development 6648 fruit disorders 1841	black end, calcium deficiency 3493 black fruit 1027	parthenocarpic 517 growth substances 8469
pollen tube, growth 6648	chlorosis	pollination 2652, 5789
tissue culture	iron nutrition 4947	size
callus, grafting compatibility studies	Yugoslavia 7457	growth substances
3567	core breakdown, growth substances, 2,4-D	aminozide 4279
embryo 2591	3500	chlormequat 4279

ornamental trees and shrubs 3838

Pear fruit contd.	Pear leaf contd.	Pear rootstocks contd.
		-44
size contd.	chlorophyll, content, light intensity 3491	seedling contd.
pollination 2652	chlorphyll, content, rootstock effect 1032	variability 3488
rootstocks 3490	cuticle, growth substances, absorption	winter hardiness 8464
specific gravity 8421	2885	treatment, disease control, Agrobacterium
stone cells, composition 7463	flower bud, initiation 2650	tumefaciens 4207
sugars	growth substances, absorption 3495	virus-tested plants, EMLA scheme 7320
		Pear seed
content	nutrients, content, rootstocks 8465	
seasonal variations 6522	removal, chemical 6510-6511	germination, metabolic processes 2523
storage containers, trays, liners 1033	water content	treatment, stratification, metabolic
metabolism, storage 4284	planting, spacing 1030	processes 2523
thinning, growth substances 4281	seasonal variations 1030	Pear shoot, bud, development, growth
treatment, fungicides, post-harvest 6651	wax, growth substances, absorption 5054	substances 87
water loss, storage 3177	Pear nutrition	Pear soil
Pear growth substances	calcium	cultivation 5047
absorption	fruit, disorders 3493	erosion, control 938
foliar	plant, manganese content 3492	fumigation
abscisic acid 2885	copper, rootstock production 5788	nematode control 5728
2,4-D 2885	general, leaf analysis, symposium 2489	root growth, Ditrapex 5728
NAA 2885, 3495	green manures 936	management 5047
leaf, NAA 5054	iron	methods compared 8466
application	chlorosis 4947	NPK contents, soil 938
	deficiency, annual report, UK 3347	micro-organisms, soil management 937
post-harvest		
2,4-D 3500	manganese, rootstock production 5788	moisture, soil management 937
IAA 3500	NPK, sub-tropics 1834	pH 5048
2,4,5-T 3500	Pear pests	disease incidence 5048, 5785
biennial bearing	Aphanostigma piri 7459	root-shoot relationships 5048
aminozide 4279	Australia 6518	structure, soil management 937
chlormequat 4279	bullfinches, protection against 86	Pear varieties
endogenous	Cacoecia podana 5738	annual report, USA 3349
	Caliroa cerasi, biological control 5051	comparative studies, South Africa 8322
flower 4280		
fruit 1842, 4280	Capua reticulana 5738	comparative trials, annual report, Cyprus
parthenocarpy 8470	Contarinia pyrivora 5050	_ 3345
seasonal variations 8470	Cydia molesta 1837	Dawn 3486
seed 2523, 4280	C. pomonella, forecasting 1761	disease resistance
flower, bud, development, CCC 87	Janus piri 1029	Alternaria kikuchiana 7458
flower bud	mites 3324	Entomosporium maculatum 8478
initiation	biological control 29	Erwinia amylovora 3486, 5049, 5786
aminozide 1840, 4279	Panonychus ulmi 5738	Doyenné du Comice, pollination 5789
chlormequat 1840, 4279, 8468	Psylla piri 5738	flower bud, initiation 7460
GA 1840	P. pyri, control, annual report, USA	fruit
inhibition, GA 7461	8319 .	ascorbic acid, content 7416
fruit	P. pyricola 8467	composition 6606
colour	host-pest relationships 1838	identification, shoots, nursery 3354
2,4-D 3500	P. spp. 1744	Kollektivnaya 2648
IAA 3500	biological control 5051	Kosmichskaya 2648
2,4,-5-T 3500	control 5052	Magness 3486
drop	Tetranychus telarius 455, 5738	Merton Pride 6530
fenoprop 8469	Pear propagation	Moonglow 3486
GA 8469	cuttings	Packham's Triumph 4282
flavour, 2,4-D 3500	shoot	parthenocarpy 4273
quality, review 1792	age 4178	pollen compatibility 6649
		pollination 4273
ripening	part 4178	
abscisic acid 1842	treatment, growth substances 4178	Précoce de Trévoux 6530
inhibition	grafting	register, USA 3356
2,4-D 7462	height 5046	rootstock compatibility, Quince A 4271
IAA 7462	rootstocks, planting, spacing 7349	Russkaya 2648
storage, review 7407	scions, treatment, growth substances	Schweizer Wasserbirne, pollination 517
set	1833	Sierra 1724, 6638
CCC 87	nursery stock, defoliation 5716	storage, controlled atmosphere 6650
GA 7461	Pear root	storage behaviour 4283, 8471
parthenocarpic, GA 8469	growth, mulching 936	Trévoux, pollination 2652
size	-shoot relationships, soil pH 5048	Tunisia 4155
aminozide 4279	Pear rootstocks	USSR 2521, 4269, 5045
chlormequat 4279	characteristics 84, 5782	virus-tested clones, EMLA scheme 2528
thinning	comparative trials	7320 .
NAA 4281	New Zealand 5783	winter hardiness 5045
NAD 4281	South Africa 5782, 7456	Peat
leaf, removal, ethephon 6511	flower bud, initiation 2530	anthurium growing, nutrition 8875
maturity, fenoprop 8469	propagation, seed 8464	
		azalea growing, nutrition 746
responses	Pyrus spp. 1032	begonia growing, nutrition 6166
aminozide 3360	quince 1032	capsicum growing 4535
chlormequat 8468	Quince A 3490	mulching, annual report, Sarawak
retardants	compatibility 4271	3609
aminozide 4279, 6577	-scion relationships 5782	casing, mushroom growing 8819
chlormequat 4279, 6577	chlorophyll, content 1032	chrysanthemum growing
shoot	disease incidence 4272	nutrition 6145
bud, development, CCC 87		
growth	disorder incidence, black calyx-end	minor elements 4382
	7456	cucumber and gherkin growing, nutrition
aminozides 1840	fruit, size 3490	7683
chlormequat 1840	incompatability 5784	cut flowers growing 7855
ethephon 1840	-scion relationships, incompatibility 5744	cyclamen growing, nutrition 7893
GA 1840	-scion relationships, leaf, nutrients,	essential oil plant growing 1417
TIBA 1840	content 8465	extracts
storage disorders, 2,4-D 3500	-scion relationships	cucumber and gherkin nutrition 5344
Pear hybrids, flower bud, initiation 7460		
	pistil, amino acids, content 5744	tomato nutrition 5344
Pear leaf	pollen, amino acids, content 5744	gloxinia growing, nutrition 8894
area, measurement, photosynthesis,	seedling	herbs growing 7605
productivity 5053	production 8464	lettuce growing 7626
ascorbic acid, content, light intensity	propagation 8464	media
3491	treatment	container-grown plants, nutrition 894
cell sap, concentration, seasonal variations	growth substances 5788	cuttings
916	nutrients 5788	ornamental trees and shrubs 3838

Peat contd.	Pecan varieties contd.	Peperomia diseases, Colletotrichum
media contd.	register, USA 3356, 4156	dematium 6203
cuttings contd.	Tunisia 4155	Peperomia growth substances, translocation,
saintpaulia 8844	USA 6652	heteroauxin 1320
trees and shrubs 8844-8845	Pectins	Pepper, black
seed sowing	content	annual report, Sarawak 3933
bedding plants 7606	bulb skin	essential oil
vegetables 7606	garlic 8745	composition
		The state of the s
media constituent, physical properties	onion 8745	varietal differences 1404
7291	fruit, ripening, banana 8128	volatile constituents 7069
mulch, tea 7268, 9274	Pegamya spp., bacteria, vectors, Erwinia	content, varietal differences 7978
soil amendment, <i>Polystichum</i> spp. 8931	amylovora, pear 5787	determination 1404, 7066
tomato growing	Pelatachina tibialis, parasite of,	
nutrition 1284, 7784, 7786		medicinal properties 3016
review 7783	Synanthedon tipuliformis, black currant,	Malagasy Republic, annual report, France
	red currant 6677	754
trough culture, vegetables, annual report,	Pellicularia filamentosa, clonal resistance,	piperine, content, varietal differences
UK 6773	rubber diseases 8181	7978
vegetables growing 7605		
diseases 7607	Pemphigus bursarius	propagation
nutrition 7604, 7628	lettuce pests 1159	cuttings
annual report Irish Republic 5150	resistance, lettuce pests 3643	hardwood 1408
minor elements 608, 4382	varietal resistance, lettuce pests 1159	leaf bud 1408
	Penicillium corymbiferum	treatment
Pecan		
annual report, USA 451, 1706, 3349,	fungicides, resistant strains, benomyl, lily	growth substances
4945	diseases 7903	IAA 1408
carbon dioxide, concentration, fruit,	garlic diseases 1244	IBA 1408
dehiscence 7466	P. digitatum	NAA 1408
flowering, secondary 1038	citrus diseases, annual report, Australia	quality, determination methods 7979,
fungicides	4782	8984
nut	mandarin and tangerine diseases 4810	research, India, review 7968
set	orange diseases 4810, 9099	root, anatomy 3172
benomyl 8473	post-harvest dips, orange diseases 4811	shade, disease incidence, Elsinoë piperis
fentin hydroxide 8473	storage dips, lemon diseases 6363	6254
growing, South Africa 519		
	P. expansum	Pepper, black, diseases
harvesting, shuck loosening, growth	fruit storage, apple diseases 485	Elsinoë piperis 6254
substances, ethephon 90	post-harvest dips	alternative host, <i>Piper guineense</i> 6254
herbicides	apple diseases 5007	Phytophthora palmivora, control 6384
injury	pear diseases 5007	P. parasitica, control 6384
diuron 5056	storage diseases, apple diseases 5008	Pepper, black, flower
terbacil 5056	P. oxalicum, Phyllanthus emblica, diseases	sex
irrigation, requirements 6326	7274	seasonal variations 7072
pruning and training 3501	P. simplicissimum, inoculation, leaf,	varietal differences 7072
report, USA 8320	composition, tagetes 2207	Pepper, black, fruit, set, varietal differences
symposium 5794, 7164	P. spp.	7072
weed control 5056	bulbs, diseases 6165	Pepper, black, nutrition, manganese, toxicity
yield, correlations 1845	camellia diseases 4686	4735
Pecan diseases	control	Pepper, black, pests
Fusicladium effusum, control 5057, 7464	apple diseases 7413	Meloidogyne incognita 7977
leaf scorch (various fungi) 2653	lily diseases 7903	M. javanica 7977
Pecan flower	Dioscorea spp., diseases 6297	Pepper, black, varieties 7072
bud initiation	eggplant diseases 1274	essential oil, content 7978
fruit removal 1038	fruit storage	Frommage 4534
leaf removal 1038	apple diseases 4224	piperine, content 7978
drop 5795	fig diseases 1010	Perennial flowers, value, aesthetic, annual
Pecan fruit	mandarin and tangerine diseases 7153	report, German Federal Republic 7844
dehiscence	natsudaidai diseases 6360	Perennial grasses, as weeds, pineapple
carbon dioxide 7466	grapevine diseases 579	8172
ethylene 7465	iris diseases, annual report, USA 6129	Pereskia spp., edible fruits 822
drop 5795	leaf, micro-organisms, ozone, bean	Pereskiopsis spp., edible fruits 822
ethylene, production 7465	(Phaseolus) 6839	Periderium harknessii, varietal incidence,
set	lily diseases, annual report, Netherlands	Pinus spp., diseases 5461
fruit removal 1038	6127	Peridroma saucia, control, melon (cantaloup
leaf removal 1038	orange diseases 7155	and musk) pests 7669
thinning, growth substances, ethephon	post-harvest dips, apple diseases 986	Perilla spp.
90	rot development, apple diseases 57	flower, bud initiation, photoperiodism
Pecan growth substances	seed-borne, spinach diseases 6785	1347
fruit, thinning, ethephon 90	soil, micro-organisms, replanting,	growth substances
shuck loosening, ethephon 90	grapevine 1105	translocation
Pecan leaf	storage diseases, grapevine diseases 1916	anthesins 4645
analysis, atomic absorption spectroscopy		gibberellins 4645
and Joseph Control of the Control of	Pennisetum clandestinum	
1844	grasses, lawns and sports turf 739	photoperiodism, flower bud initiation
1844	grasses, lawns and sports turf 739	
1844 composition, zinc 1036	grasses, lawns and sports turf 739 soil, erosion, control 739	photoperiodism, flower bud initiation 1347
1844 composition, zinc 1036 removal	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida
i844 composition, zinc 1036 removal nut	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 <i>P. purpureum,</i> weeds, sugar cane, annual	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane
1844 composition, zinc 1036 removal nut set 3502	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 <i>P. purpureum</i> , weeds, sugar cane, annual report, USA 1530	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637
i844 composition, zinc 1036 removal nut	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 P. purpureum, weeds, sugar cane, annual report, USA 1530 P. spp., as weeds, oil palm 8166	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637 sugar cane pests, annual report, Australia
1844 composition, zinc 1036 removal nut set 3502	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 <i>P. purpureum</i> , weeds, sugar cane, annual report, USA 1530	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637
i844 composition, zinc 1036 removal nut set 3502 size 3502 Pecan nut	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 P. purpureum, weeds, sugar cane, annual report, USA 1530 P. spp., as weeds, oil palm 8166 Pentalonia nigronervosa	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637 sugar cane pests, annual report, Australia
i844 composition, zinc 1036 removal nut set 3502 size 3502 Pecan nut proteins, content 4941	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 P. purpureum, weeds, sugar cane, annual report, USA 1530 P. spp., as weeds, oil palm 8166 Pentalonia nigronervosa banana pests 380, 5489	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637 sugar cane pests, annual report, Australia 9219
i844 composition, zinc 1036 removal nut set 3502 size 3502 Pecan nut proteins, content 4941 set, leaf, removal 3502	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 P. purpureum, weeds, sugar cane, annual report, USA 1530 P. spp., as weeds, oil palm 8166 Pentalonia nigronervosa banana pests 380, 5489 cardamoms pests 5489, 6252	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637 sugar cane pests, annual report, Australia 9219 virus, vectors, Fiji disease virus, sugar cane pests 1633
i844 composition, zinc 1036 removal nut set 3502 size 3502 Pecan nut proteins, content 4941 set, leaf, removal 3502 size, leaf, removal 3502	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 P. purpureum, weeds, sugar cane, annual report, USA 1530 P. spp., as weeds, oil palm 8166 Pentalonia nigronervosa banana pests 380, 5489 cardamoms pests 5489, 6252 fungal parasites, cardamoms pests 6253	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637 sugar cane pests, annual report, Australia 9219 virus, vectors, Fiji disease virus, sugar cane pests 1633 P. saccharina, vectors, fiji disease, sugar
i844 composition, zinc 1036 removal nut set 3502 size 3502 Pecan nut proteins, content 4941 set, leaf, removal 3502 size, leaf, removal 3502 Pecan nutrition	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 P. purpureum, weeds, sugar cane, annual report, USA 1530 P. spp., as weeds, oil palm 8166 Pentalonia nigronervosa banana pests 380, 5489 cardamoms pests 5489, 6252 fungal parasites, cardamoms pests 6253 vectors, bunchy top, banana pests 9132	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637 sugar cane pests, annual report, Australia 9219 virus, vectors, Fiji disease virus, sugar cane pests 1633 P. saccharina, vectors, fiji disease, sugar cane pests 421
i 844 composition, zinc 1036 removal nut set 3502 size 3502 Pecan nut proteins, content 4941 set, leaf, removal 3502 size, leaf, removal 3502 Pecan nutrition zinc	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 P. purpureum, weeds, sugar cane, annual report, USA 1530 P. spp., as weeds, oil palm 8166 Pentalonia nigronervosa banana pests 380, 5489 cardamoms pests 5489, 6252 fungal parasites, cardamoms pests 6253 vectors, bunchy top, banana pests 9132 virus vectors, mosaic, cardamoms pests	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637 sugar cane pests, annual report, Australia 9219 virus, vectors, Fiji disease virus, sugar cane pests 1633 P. saccharina, vectors, fiji disease, sugar cane pests 421 Perlite
i844 composition, zinc 1036 removal nut set 3502 size 3502 Pecan nut proteins, content 4941 set, leaf, removal 3502 size, leaf, removal 3502 Pecan nutrition	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 P. purpureum, weeds, sugar cane, annual report, USA 1530 P. spp., as weeds, oil palm 8166 Pentalonia nigronervosa banana pests 380, 5489 cardamoms pests 5489, 6252 fungal parasites, cardamoms pests 6253 vectors, bunchy top, banana pests 9132	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637 sugar cane pests, annual report, Australia 9219 virus, vectors, Fiji disease virus, sugar cane pests 1633 P. saccharina, vectors, fiji disease, sugar cane pests 421
i844 composition, zinc 1036 removal nut set 3502 size 3502 Pecan nut proteins, content 4941 set, leaf, removal 3502 size, leaf, removal 3502 Pecan nutrition zinc application, methods compared 1036	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 P. purpureum, weeds, sugar cane, annual report, USA 1530 P. spp., as weeds, oil palm 8166 Pentalonia nigronervosa banana pests 380, 5489 cardamoms pests 5489, 6252 fungal parasites, cardamoms pests 6253 vectors, bunchy top, banana pests 9132 virus vectors, mosaic, cardamoms pests	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637 sugar cane pests, annual report, Australia 9219 virus, vectors, Fiji disease virus, sugar cane pests 1633 P. saccharina, vectors, fiji disease, sugar cane pests 421 Perlite
i844 composition, zinc 1036 removal nut set 3502 size 3502 Pecan nut proteins, content 4941 set, leaf, removal 3502 size, leaf, removal 3502 Pecan nutrition zinc application, methods compared 1036 deficiency 1036–1037	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 P. purpureum, weeds, sugar cane, annual report, USA 1530 P. spp., as weeds, oil palm 8166 Pentalonia nigronervosa banana pests 380, 5489 cardamoms pests 5489, 6252 fungal parasites, cardamoms pests 9132 virus vectors, bunchy top, banana pests 9132 virus vectors, mosaic, cardamoms pests 6251 Pentatrichopus fragaefolii	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637 sugar cane pests, annual report, Australia 9219 virus, vectors, Fiji disease virus, sugar cane pests 1633 P. saccharina, vectors, fiji disease, sugar cane pests 421 Perlite cucumber and gherkin growing 7781 media constituent, physical properties
i 844 composition, zinc 1036 removal nut set 3502 size 3502 Pecan nut proteins, content 4941 set, leaf, removal 3502 size, leaf, removal 3502 Pecan nutrition zinc application, methods compared 1036 deficiency 1036–1037 sources 1036	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 P. purpureum, weeds, sugar cane, annual report, USA 1530 P. spp., as weeds, oil palm 8166 Pentalonia nigronervosa banana pests 380, 5489 cardamoms pests 5489, 6252 fungal parasites, cardamoms pests 6253 vectors, bunchy top, banana pests 9132 virus vectors, mosaic, cardamoms pests 6251 Pentatrichopus fragaefolii strawberry pests 5079	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637 sugar cane pests, annual report, Australia 9219 virus, vectors, Fiji disease virus, sugar cane pests 1633 P. saccharina, vectors, fiji disease, sugar cane pests 421 Perlite cucumber and gherkin growing 7781 media constituent, physical properties 7291
i844 composition, zinc 1036 removal nut set 3502 size 3502 Pecan nut proteins, content 4941 set, leaf, removal 3502 size, leaf, removal 3502 Pecan nutrition zinc application, methods compared deficiency 1036–1037 sources 1036 Pecan pests, mites, biological control 29	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 P. purpureum, weeds, sugar cane, annual report, USA 1530 P. spp., as weeds, oil palm 8166 Pentalonia nigronervosa banana pests 380, 5489 cardamoms pests 5489, 6252 fungal parasites, cardamoms pests 6253 vectors, bunchy top, banana pests 9132 virus vectors, mosaic, cardamoms pests 6251 Pentatrichopus fragaefolii strawberry pests 5079 vectors, mottle, strawberry pests 7537	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637 sugar cane pests, annual report, Australia 9219 virus, vectors, Fiji disease virus, sugar cane pests 1633 P. saccharina, vectors, fiji disease, sugar cane pests 421 Perlite cucumber and gherkin growing 7781 media constituent, physical properties 7291 tomato growing 7781, 8773
i844 composition, zinc 1036 removal nut set 3502 size 3502 Pecan nut proteins, content 4941 set, leaf, removal 3502 size, leaf, removal 3502 Pecan nutrition zinc application, methods compared 1036 deficiency 1036–1037 sources 1036 Pecan pests, mites, biological control 29 Pecan propagation, budding, rootstocks,	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 P. purpureum, weeds, sugar cane, annual report, USA 1530 P. spp., as weeds, oil palm 8166 Pentalonia nigronervosa banana pests 380, 5489 cardamoms pests 5489, 6252 fungal parasites, cardamoms pests vectors, bunchy top, banana pests 9132 virus vectors, mosaic, cardamoms pests 6251 Pentatrichopus fragaefolii strawberry pests 5079 vectors, mottle, strawberry pests 7537 Pentstemon, growing, USA 5414	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637 sugar cane pests, annual report, Australia 9219 virus, vectors, Fiji disease virus, sugar cane pests 1633 P. saccharina, vectors, fiji disease, sugar cane pests 421 Perlite cucumber and gherkin growing 7781 media constituent, physical properties 7291 tomato growing 7781, 8773 Pernettya spp.
i 1844 composition, zinc 1036 removal nut set 3502 size 3502 Pecan nut proteins, content 4941 set, leaf, removal 3502 size, leaf, removal 3502 Pecan nutrition zinc application, methods compared 1036 deficiency 1036–1037 sources 1036 Pecan pests, mites, biological control 29 Pecan propagation, budding, rootstocks, treatment 2654	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 P. purpureum, weeds, sugar cane, annual report, USA 1530 P. spp., as weeds, oil palm 8166 Pentalonia nigronervosa banana pests 380, 5489 cardamoms pests 5489, 6252 fungal parasites, cardamoms pests 6253 vectors, bunchy top, banana pests 9132 virus vectors, mosaic, cardamoms pests 6251 Pentatrichopus fragaefolii strawberry pests 5079 vectors, mottle, strawberry pests 7537 Pentstemon, growing, USA 5414 Peony, tissue culture, anther, annual report,	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637 sugar cane pests, annual report, Australia 9219 virus, vectors, Fiji disease virus, sugar cane pests 1633 P. saccharina, vectors, fiji disease, sugar cane pests 421 Perlite cucumber and gherkin growing 7781 media constituent, physical properties 7291 tomato growing 7781, 8773 Pernettya spp. propagation
i844 composition, zinc 1036 removal nut set 3502 size 3502 Pecan nut proteins, content 4941 set, leaf, removal 3502 size, leaf, removal 3502 Pecan nutrition zinc application, methods compared 1036 deficiency 1036–1037 sources 1036 Pecan pests, mites, biological control 29 Pecan propagation, budding, rootstocks,	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 P. purpureum, weeds, sugar cane, annual report, USA 1530 P. spp., as weeds, oil palm 8166 Pentalonia nigronervosa banana pests 380, 5489 cardamoms pests 5489, 6252 fungal parasites, cardamoms pests 6253 vectors, bunchy top, banana pests 9132 virus vectors, mosaic, cardamoms pests 6251 Pentatrichopus fragaefolii strawberry pests 5079 vectors, mottle, strawberry pests 7537 Pentstemon, growing, USA 5414 Peony, tissue culture, anther, annual report, UK 3832	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637 sugar cane pests, annual report, Australia 9219 virus, vectors, Fiji disease virus, sugar cane pests 1633 P. saccharina, vectors, fiji disease, sugar cane pests 421 Perlite cucumber and gherkin growing 7781 media constituent, physical properties 7291 tomato growing 7781, 8773 Pernettya spp. propagation cuttings
i 1844 composition, zinc 1036 removal nut set 3502 size 3502 Pecan nut proteins, content 4941 set, leaf, removal 3502 size, leaf, removal 3502 Pecan nutrition zinc application, methods compared 1036 deficiency 1036–1037 sources 1036 Pecan pests, mites, biological control 29 Pecan propagation, budding, rootstocks, treatment 2654	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 P. purpureum, weeds, sugar cane, annual report, USA 1530 P. spp., as weeds, oil palm 8166 Pentalonia nigronervosa banana pests 380, 5489 cardamoms pests 5489, 6252 fungal parasites, cardamoms pests 6253 vectors, bunchy top, banana pests 9132 virus vectors, mosaic, cardamoms pests 6251 Pentatrichopus fragaefolii strawberry pests 5079 vectors, mottle, strawberry pests 7537 Pentstemon, growing, USA 5414 Peony, tissue culture, anther, annual report,	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637 sugar cane pests, annual report, Australia 9219 virus, vectors, Fiji disease virus, sugar cane pests 1633 P. saccharina, vectors, fiji disease, sugar cane pests 421 Perlite cucumber and gherkin growing 7781 media constituent, physical properties 7291 tomato growing 7781, 8773 Pernettya spp. propagation
i844 composition, zinc 1036 removal nut set 3502 size 3502 Pecan nut proteins, content 4941 set, leaf, removal 3502 size, leaf, removal 3502 Pecan nutrition zinc application, methods compared 1036 deficiency 1036–1037 sources 1036 Pecan pests, mites, biological control 29 Pecan propagation, budding, rootstocks, treatment 2654 Pecan rootstocks, treatment, growth substances 2654	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 P. purpureum, weeds, sugar cane, annual report, USA 1530 P. spp., as weeds, oil palm 8166 Pentalonia nigronervosa banana pests 380, 5489 cardamoms pests 5489, 6252 fungal parasites, cardamoms pests vectors, bunchy top, banana pests 9132 virus vectors, mosaic, cardamoms pests 6251 Pentatrichopus fragaefolii strawberry pests 5079 vectors, mottle, strawberry pests 7537 Pentstemon, growing, USA 5414 Peony, tissue culture, anther, annual report, UK 3832 Peony plant, anatomy 2313	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637 sugar cane pests, annual report, Australia 9219 virus, vectors, Fiji disease virus, sugar cane pests 1633 P. saccharina, vectors, fiji disease, sugar cane pests 421 Perlite cucumber and gherkin growing 7781 media constituent, physical properties 7291 tomato growing 7781, 8773 Pernettya spp. propagation cuttings containers, compared 3918
i844 composition, zinc 1036 removal nut set 3502 size 3502 Pecan nut proteins, content 4941 set, leaf, removal 3502 size, leaf, removal 3502 Pecan nutrition zinc application, methods compared 1036 deficiency 1036–1037 sources 1036 Pecan pests, mites, biological control 29 Pecan propagation, budding, rootstocks, treatment 2654 Pecan rootstocks, treatment, growth substances 2654 Pecan varieties 89	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 P. purpureum, weeds, sugar cane, annual report, USA 1530 P. spp., as weeds, oil palm 8166 Pentalonia nigronervosa banana pests 380, 5489 cardamoms pests 5489, 6252 fungal parasites, cardamoms pests 6253 vectors, bunchy top, banana pests 9132 virus vectors, mosaic, cardamoms pests 6251 Pentatrichopus fragaefolii strawberry pests 5079 vectors, mottle, strawberry pests 7537 Pentstemon, growing, USA 5414 Peony, tissue culture, anther, annual report, UK 3832 Peony plant, anatomy 2313 Peony propagation	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637 sugar cane pests, annual report, Australia 9219 virus, vectors, Fiji disease virus, sugar cane pests 1633 P. saccharina, vectors, fiji disease, sugar cane pests 421 Perlite cucumber and gherkin growing 7781 media constituent, physical properties 7291 tomato growing 7781, 8773 Pernettya spp. propagation cuttings containers, compared 3918 media, compared 3918
i844 composition, zinc 1036 removal nut set 3502 size 3502 Pecan nut proteins, content 4941 set, leaf, removal 3502 size, leaf, removal 3502 Pecan nutrition zinc application, methods compared 1036 deficiency 1036–1037 sources 1036 Pecan pests, mites, biological control 29 Pecan propagation, budding, rootstocks, treatment 2654 Pecan rootstocks, treatment, growth substances 2654	grasses, lawns and sports turf 739 soil, erosion, control 739 weeds, lawns and sports turf 739 P. purpureum, weeds, sugar cane, annual report, USA 1530 P. spp., as weeds, oil palm 8166 Pentalonia nigronervosa banana pests 380, 5489 cardamoms pests 5489, 6252 fungal parasites, cardamoms pests vectors, bunchy top, banana pests 9132 virus vectors, mosaic, cardamoms pests 6251 Pentatrichopus fragaefolii strawberry pests 5079 vectors, mottle, strawberry pests 7537 Pentstemon, growing, USA 5414 Peony, tissue culture, anther, annual report, UK 3832 Peony plant, anatomy 2313	photoperiodism, flower bud initiation 1347 Perkinsiella saccharicida predators, Tythus mundulus, sugar cane 1637 sugar cane pests, annual report, Australia 9219 virus, vectors, Fiji disease virus, sugar cane pests 1633 P. saccharina, vectors, fiji disease, sugar cane pests 421 Perlite cucumber and gherkin growing 7781 media constituent, physical properties 7291 tomato growing 7781, 8773 Pernettya spp. propagation cuttings containers, compared 3918

10/6		Hotticultural Abstracts 1775 vol. 4
Peronospora contd.	Persimmon leaf	Petunia contd.
P. brassicae	nitrogen, content 4029	pollen contd.
varietal resistance	phosphorus, content 4029	germination, ozone, injury 1340
brussels sprouts diseases 4420	potassium, content 4029	Petunia, pollen, germination, RNA,
cabbage diseases 4420	temperature, photosynthesis 7325	synthesis 275
cauliflower and broccoli diseases 3654	Persimmon nutrition, NPK 4029	Petunia
P. destructor	Persimmon pests, Tenuipalpus japonicus	pollen
control, onion diseases 5312	821	protoplasts, isolation 2202
host nutrition, onion diseases 663	Persimmon propagation, budding, time of	structure, ozone, injury 1340
onion diseases 3763	8115	pollen tube
resistance, breeding and selection, onion	Persimmon root, growth, pruning and	growth 6155
diseases 2830	training 2431	nuclei 6155
temperature, onion diseases 4523	Persimmon varieties	seedling
P. farinosa	comparative trials, annual report, USA	production, temperature 276
host-pathogen relationships, spinach	8051	raising
diseases 1958	Izu 2430	pots, types compared 5390
spinach diseases, annual report, German	Pest, incidence, plant nutrition 865	soil blocks, annual report,
Federal Republic 7599	Pestalotia guepini, azalea diseases 7046	Netherlands 1314
P. parasitica	P. microspora, host-pathogen relationships,	sulphur dioxide, injury 1322
cabbage diseases, annual report, USA	ivy diseases 5464	temperature, seedling production 8843
4367	P. quepina, olive diseases 3166	tissue culture
cauliflower and broccoli diseases, annual	P. scirrofaciens, sapodilla diseases 2464	flower bud 8872
report, UK 3610	P. spp., epiphyte, pecan 2653	leaf, growth substances, treatment
climate, cabbage diseases 8622	Pestalotiopsis versicolor	7871
drought, cabbage diseases 8622	host nutrition, azalea diseases 6225	pollen 707, 6153
temperature, cabbage diseases 8622	relative humidity, azalea diseases 6225	protoplast, callus formation 6154
P. schleidenii, onion diseases 2084	temperature, azalea diseases 6225	shoot, growth substances, treatment
P. sparsa, rose diseases, annual report,	Pestalozzia theae, NPK nutrition, tea	7871
German Federal Republic 7843	diseases 4897	water relations, minor elements, nutrition
P. spp.	Pesticides	1343
fungicides, application, time, fruit set,	residues, report, German Federal Republic	weed control 2171, 8852
grapevine diseases 6755	8284	Petunia diseases, Fusarium spp. 722
grapevine diseases 3579	various	Petunia flower
leek diseases 661	residues	amino acids, content, male sterility 787
resistance, breeding and selection,	fruit 4935	dormancy 6986
grapevine diseases 4350	vegetables 4935	breaking, growth substances 6986
P. viciae	Pests	formation, minor elements, nutrition
pea diseases 1230	control	1343
annual report, UK 3611	biological, review 4930	male sterility 7870
resistance, pea diseases, annual report,	economics 2501	Petunia growth substances
UK 5149	hormone mimics 4121	application
Perovskia spp., essential oil, composition	plant breeding 2501	with ascorbic acid, aminozide 6152
3949–3950	Proceedings, Conference, North	wax coatings, aminozide 6152
Persimmon 5504	Carolina State University 2501	dwarfing
carbon dioxide, fruit, astringency 5594	crop losses, assessment mehods 1692	ancymidol 2931
ethylene, fruit, ripening 4045	forecasting	Pydanon 5390
fungicides 3320	Argyrotaenia pulchellana, grapevine	flower dormancy, breaking, GA 6986
growing, Philippines 820	580	leaf
hurricane, damage, disease incidence 4827	Carposina niponenis, apple 1757	development
insecticides 3318	Cydia pomonella	BA 7871 2,4-D 7871
residues 3328	apple 1761 pear 1761	IAA 7871
arsenic 3329	light traps, tortricids 1764	kinetin 7871
lead, residues 4936	male traps, Cydia pomonella, apple	NAA 7871
light	1766	zeatin 7871
intensity	Panonychus ulmi, apple 1757	ozone injury
fruit, drop 3168	Pseudococcus comstocki, apple 1757	prevention
photosynthesis 7325	host-parasite relationships, cucurbitacin,	aminozide 6152
photosynthesis 7325	content, cucurbits 1194	Phosfon-D 6152
pruning and training 2431	resistance	pest control, Trialeurodes vaporariorum,
trellising, growth correlations 6639	plant analysis	aminozidė 3850
ringing, fruit, drop 3168	brussels sprouts 1697	retardants, Pydanon 2163
storage, controlled atmosphere 5002	chrysanthemum 1697	shoot
tissue culture, callus, grafting	sterilization, irradiation, gamma rays,	development
compatibility studies 3567	Acanthoscelides obtectus, bean	BA 7871
Persimmon diseases, Cephalosporium	(Phaseolus) 2024	2,4-D 7871
diospyri, incidence, hurricane damage	Petilium spp., growing 5440	IAA 7871
4827	Petunia	kinetin 7871
Persimmon fruit	air pollution, sulphur dioxide, ethylene,	NAA 7871
astringency, carbon dioxide treatment	injury 6132	zeatin 7871
5594	annual report	Petunia nutrition
colour, growth substances, GA 3169	UK 3832	boron, application, foliar 1343
drop	USA 3835, 8839	fertilizers
light intensity 3168	ascorbic acid, applied, interaction, growth	liquid 1342
ringing 3168	substances 6152	slow-release 1342
firmness, growth substances, GA 3169	cytology, vegetative apices, floral apices,	manganese, application, foliar 1343
flavour, growth substances, ethephon	petals 2855	nitrogen 6133
1525	dwarfing	zinc, application, foliar 1343
proteins, content, seasonal variations	growth substances 5390	Petunia pests, Trialeurodes vaporariorum,
2432	ancymidol 2931	control, growth substances, aminozide
ripening, growth substances, ethephon	enzyme activity, flower 3851	3850
4045	enzymes, flower 3851	Petunia seed
storage life, growth substances, GA 3169	ethylene, injury, annual report,	germination, temperature 8843
sugars, content, seasonal variations 2432	Netherlands 6961	production, minor elements, nutrition
tannins, content, seasonal variations 2432	growth 707	1343
Persimmon growth substances	growth 707	sowing, direct, in pots, pelleted 2165
fruit	herbicides, responses 8852	treatment, pelleted 2165
colour, GA 3169	ozone injury 1322, 4633	Petunia varieties
firmness, GA 3169	prevention, growth substances 6152	annual report, Netherlands 6127
flavour, ethephon 1525	varietal resistance 6152	comparative trials 1341
ripening, ethephon 4045	pollen	ozone, injury, resistance 6152
storage life, GA 3169	composition, ozone, injury 1340	Peucedanum grande, coumarins, content 5530
2.01.00	Joniposition, Ocolie, Injury 1570	5550

Philodendron flower, temperature 7935

Subject Index		107
Pezicula alba, apple diseases, annual report, Netherlands 5698	Philodendron nutrition 4679 Philodendron potting composts	Phorbia platura, bean (Phaseolus) pests, annual report, German Federal Republi
P. malicorticis	amendments 4679	7598, 8579
apple diseases, annual report, Netherlands	types compared 4679	Phorodon humuli
5698 incidence, apple diseases 5009	Philodendron spp. nutrition	control, hop pests 5511–5512, 7094 hop pests 3041, 4748
? spp., apple diseases, annual report,	major elements, plant, analysis 1376	annual report
Netherlands 5697	minor elements, plant, analysis 1376	German Federal Republic 7064
Phaeophleospora indica, sapodilla diseases, annual report, India 4034	plant, composition, major and minor elements 1376	UK 2330, 3040, 9009 insecticide resistance, hop pests 3046
Phalaenopsis spp.	Phleum pratense, lawns and sports turf,	predators, hop pests, annual report, UK
carbohydrates, metābolism 5458 diseases	breeding and selection, disease resistance	resistance, hop pests, annual report, UK
virus 6208	6195 <i>P.</i> spp.	3954
annual report, German Federal Republic 8837	lawns 2967	Phosphorus
enzyme activity, seedling 5458	lawns and sports turf	absorption aluminium nutrition
flower, development 8938	breeding and selection 3884 irrigation, requirements 8915	sugar cane 7252
Pharbitis spp. flower	weed incidence 8915	tea 6458 cabbage nutrition 145
bud initiation, light 3848	orchard tracks 3890	calcium nutrition, tomato 6911
development, growth substances 7869 growth substances	Phlojodicarpus villosus, coumarins 6283 Phlox varieties, USSR 2157	coffee 6404
endogenous, flower 7869	Phoenix spp.	dormancy, conifers 3909 drought, oil palm 4071
flower	composition 6372	fertilizers compared, spinach 5903
development GA 7869	sap, extraction 6372 sugars, content 6372	fruit, set, mandarin and tangerine 3111
IAA 7869	vitamins, content 6372	growth substances, tomato 6094
light, intensity, flower bud, initiation	Pholiota mutabilis, edible fungi 6958	herbicides, trifluralin, tomato 8770
3848 Phaseolus angularis, growing, New Zealand	Phoma betae, seed treatment, beetroot diseases, annual report, UK 1934	humates, tomato 8774 nitrogen metabolism, grapevine 5866
5976	P. destructiva	nitrogen nutrition
Pheidole megacephala, predator on, Rhabdoscelus obscurus, sugar cane	host ascorbic acid, content, tomato	apple 466 peach 466
5653	diseases 6106	nutrient solution
Phenolic compounds	host-pathogen relationships amides, tomato diseases 4573	bicarbonate
disease resistance, Ceratocystis	amino acids, tomato diseases 4573	bean (<i>Phaseolus</i>) 7787 tomato 7787
fimbriata, cacao 9140	host sugars, content, tomato diseases 6106	onion 5307-5309
fruit grapevine 1931, 3600–3601	incidence, tomato diseases 1289	orange 6342-6343 peat pH, chrysanthemum 6145
Rhizopus arrhizus, apricot 2616	P. exigua, chicory diseases 8601	pest incidence, Meloidogyne spp.,
Ziziphus spp. 858 leaf	P. lingam	tomato 2878
disease resistance	brassicas, diseases, annual report, UK 1934	potassium nutrition, beetroot 2745 soil fumigation, avocado 8055
Alternaria kikuchiana, pear 6645	cabbage diseases 4425	soil steaming, avocado 8055
Ceratocystis fimbriata, coffee 4055	P. rostrupii, host enzyme activity, carrot diseases 2897	tea, 4113 water table, <i>Vaccinium</i> spp. 6686
Sphaerotheca mors-uvae, black	P. spp., epiphyte, pecan 2653	alkaloids, content, poppy 7112
currant 6675–6676	P. strasseri, host-pathogen relationships, mint diseases 759	aluminium toxicity, pea 7728
flower bud initiation, olive 9111–9112	P. telephii, Sedum spp., diseases 1374	application foliar, almond 8333
olive 2427	Phomopsis juniperovora, juniper diseases	time, eggplant 6898
ornamental trees and shrubs 744 Pyrus spp., hybrids 1839	5463 P. mali	availability cabbage 8619
seasonal variations, olive 9111	apple diseases 1755	sugar cane, annual report, USA 9221
orange 4802	cherry diseases 1755 pear diseases 1755	vegetables 120 calcium content, cucumber and gherkin
plant disease resistance, Colletotrichum	P. osmanthi, olive diseases 3166	6826
capsici, capsicum 5325	Phomopsis sclerotioides	content
Echinoideae 4727 root, disorder resistance, sudden	cucumber and gherkin diseases 1191, 8655	aluminium nutrition, bean (<i>Phaseolus</i>) 5974
dieback, oil palm 6412	annual report	biennial bearing, apple 970
shoot, tea, annual report, Sri Lanka	Canada 3603 German Federal Republic 8579	copper nutrition, coffee 393 flower, peach 6631
determination, fruit, grapevine 7594	cucurbits, diseases 1192	fruit 0031
leaf, seasonal variations, Pyrus spp. 6646	soil temperature, cucumber and gherkin	development, plum 6663
metabolism, disease resistance, apricot	diseases 8655 P. spp.	nitrogen nutrition, strawberry 8513 peach 6631
shoot, seasonal variations, Pyrus spp.	cucumber and gherkin diseases, annual	potassium nutrition, orange 3157
6646 Phialophora cinerescens	report, Belgium 5148 Elaeagnus angustifolia, diseases 4719	tomato grafted on potato 8796 leaf
carnation diseases 715	infection process	apple 6553
annual report, Netherlands 6126, 6961	apricot diseases 7449	biennial bearing, apple 2589
P. spp., carnation diseases 714	cherry diseases 7449 peach diseases 7449	fruiting, olive 8112 mandarin and tangerine 7133
essential oil, production, USSR 7082	plum diseases 7449	nitrogen nutrition, sources, peach
growing, for essential oil production, USSR 7082	storage dips, lemon diseases 6363 P. theae	3470 nutrient source, <i>Agrostis</i> spp. 3893
Philadelphus flower, bud initiation 2996	control, cultural methods, tea diseases	seasonal variations
Philadelphus varieties, USSR 6241	5662	apple 6554 olive 8112
'hilodendron annual report, USA 8834	fungicides, absorption, tea diseases 6460 tea diseases, annual report, Sri Lanka	peach 508, 6630
growing	8262	soilless culture, grapevine 6749
media annual report, Belgium 8835	P. vexans resistance, eggplant diseases, annual	sugar cane 7252 tea 8271
coal ash 8857	report, India 3607	annual report, Sri Lanka 8262
potting composts	varietal resistance, eggplant diseases	temperature, pea 2060
amendments 4679 types compared 4679	5329 Phomopsis viticola	varietal differences, apple 6554 nitrogen nutrition, tea 6457
Philodendron diseases, Xanthomonas	control, grapevine diseases 8560-8562	plant
dieffenbachiae 7027 Philodendron flower, temperature 7935	grapevine diseases, annual report, German Federal Republic 4298, 6669	aluminium nutrition, tea 6458 diseases, tomato 3804, 7798
	F	, , , , , , , , , , , , , , , , , , , ,

		F31 1
Phosphorus contd.	Phosphorus contd.	Phosphorus contd.
content contd.	leaf analysis contd.	translocation contd.
plant contd.	mandarin and tangerine 7133	biennial bearing, apple 2589
fruiting, fruit trees and plants 5705	mango 5631	coffee 6404
growth substances, pea 1238	orange nutrition 1478	curly top virus, tomato 1294
seasonal variations, peach 508	peach 1018, 3472	marrow, annual report, UK 5943
root	petiole analysis compared, grapevine	nutrient solution
biennial bearing, apple 2589	8551	bicarbonate
growth substances, pea 3746	rubber 1616, 3253	bean (Phaseolus) 7787
nitrogen nutrition, tea 8270	seasonal variations, annual report, India	tomato 7787
sugar cane 7252	1657	peach 3478
seed, size, pea 1228	v soil analysis, coffee 3195	pest incidence, Meloidogyne spp.,
shoot	soil management methods compared,	tomato 2878
root temperature, chrysanthemum	apple 8358	tea 4113
8863	sugar cane 412, 9247	temperature, bean (Phaseolus) 2028
seasonal variations, apple 6554	manganese absorption, avocado 8055	Photinia spp.
varietal differences, apple 6554	metabolism	leaf
tuber, tomato grafted on potato 8796	bean (Phaseolus) 4470	anthocyanins, content, respiration
zinc nutrition, grapevine 1912	humates, tomato 8774	8944
copper content, grapevine 6751	humic acid	colour, respiration 8944
copper toxicity, grapevine 6753	cucumber and gherkin 684	propagation, cuttings, media 3838
darkness, tomato 5356	tomato 684	respiration, leaf, colour 8944
deficiency	nitrogen, grapevine 7581 pea 2071	Photographic surveys
amino acids, metabolism, pumpkin	pumpkin 2071	citrus, annual report, USA 791
161	silicon nutrition, sugar cane 7252	ground cover
coffee 9166	temperature, apple 7401	melon (cantaloup and musk) annual
cranberry nutrition 1062 mandarin and tangerine 8071	molybdenum nutrition, pea 5272–5273	report, USA 600
nutrient absorption, mint nutrition 337	mycorrhiza relationships, onion 6880	onion, annual report, USA 600
symptoms	net assimilation rate, lettuce 3649	nutrient toxicity, citrus, annual report,
coffee 3198	nitrogen content, pea 5273	USA 790
ginger 5492	nitrogen nutrition	statistical techniques, annual report,
rubber 3253	pea 7728	USA 790
tomato 4567	pineapple 9199	Photoperiodism (see also Light)
tomato 4567	nucleic acids, metabolism, carrot, tissue	amino acids, biosynthesis, Salvia sclarea
determination, methods 8289	culture 1307	7085
disease development	nutrition, amino acids, content, capsicum	begonia 8885
Fusarium solani, bean (Vicia) 4489	1269	bolting, leek 5300
Rhizoctonia solani, bean (Vicia) 4489	pest incidence, pea nutrition 1232	boron
disease incidence, tomato 241	petiole analysis, leaf analysis compared,	absorption, sugar cane 4102
disorder incidence, low temperature	grapevine 8551	deficiency, symptoms, tagetes 5416
breakdown, apple, annual report, UK	photosynthesis, tomato 6907	bulb
8317	placement	development
flower, development, fruit trees and plants	methods compared, root growth, apple	leek 5300
5705	8377	onion 3767
flower bud	rose 3951	initiation
fruiting potential, grapevine 3578	tea 3276	ethylene, onion 2086
initiation, tree fruits 2530	plant analysis	onion 2832
flowering	grapevine 7566	ripening
apple 7368	sugar cane 6437	onion 2832
date, chamomile 3972	potassium absorption, beetroot 2745	shallot 602
frost resistance, black currant 8485	potassium content	bulblet, formation, begonia 6168
fruit	cucumber and gherkin 6826	carbohydrates, content, okra 8749
amino acids, content, capsicum 6039	persimmon 4029	chrysanthemum, annual report, Belgium
ascorbic acid, content, mandarin and	potassium nutrition	5386
tangerine 8072	mandarin and tangerine 9083	cold resistance
capsaicin, content, capsicum 8752	pineapple 9199	pyracantha 5485
composition	proteins, biosynthesis, pea 6005	weigela 5485
apple 6557	requirements, vegetables 4381	cuttings
orange nutrition 1478	residues from straw burning, iris nutrition	leaf, begonia 2223
nitrogen, content, capsicum 8753	2243	shrubs 1401 dwarfing
organic acids, content, mandarin and tangerine 8072	rhizosphere	lily 2252
proteins, content, capsicum 8753	micro-organisms cabbage 8620	Salvia spp. 1348
set, black currant 1860, 8485	tomato 8620	enzyme activity
size	root	impatiens 7884
mandarin and tangerine 8072	composition	organic acids metabolism, Kalanchoe
peach 508	pea 2071	spp. 8926
storage life, apple 6557	pumpkin 2071	spinach 129
sugars, content, grapevine 7565	shape, carrot 6941	enzymes, content, Kalanchoe spp. 7933
interaction, growth substances, pea 2068	soil adsorption, lettuce 5183	ethylene, production, cucumber and
iron deficiency, macadamia 6374	soil analysis	gherkin 3688
leaf	cabbage, chinese 7629	flower
amino acids, content, capsicum 6039	lettuce 7629	development, chrysanthemum 6148
composition	rubber 1616	quality, carnation 6968
grapefruit 2384	soil management methods compared,	flower bud
lemon 2384	apple 8358	initiation
orange 2384	sugar cane 9247	begonia 1356, 6168
copper, content, apple 1742	soil fumigation injury, avocado 8055	carnation 5402, 6142
fall, grapevine 6751	sources	chrysanthemum 7858
fruit, amino acids, content, capsicum	cabbage 8619	coffee 4864
6039	compared	cyclamen 8887
nitrogen, content, capsicum 8753	grapevine 7566	Echeveria spp. 8925
proteins, content, capsicum 8753	tea 7270	eggplant 8762
zinc, content, apple 1742	tomato 8777	Kalanchoe spp. 3902
leaf analysis	cucumber and gherkin 3802	mustard 331, 333
apple 3402, 7368, 8375	fluorine toxicity, freesia 2233	nucleic acid content, morning glory
black currant nutrition 1860	tea nutrition, annual report, India	2201
carrot 6109	1657	okra 8749
chrysanthemum 7856	tomato 3802	ornamentals 6200
citrus 1484	toxicity, coffee 4859	pea 7745
coffee 1570, 3198	translocation	Perilla spp. 1347
lettuce 5183	bean (<i>Phaseolus</i>) 2028, 2796	plant age, chrysanthemum 7857

Subject Index		107
Photoperiodism contd.	Photoperiodism contd.	Photosynthesis contd.
flower bud contd. initiation contd.	root contd.	optimal leaf area, grapevine 5823
Schlumbergera spp. 309	metabolism, bean (<i>Vicia</i>) 7725 second crop	osmotic pressure, nutrient solution, soilles culture, grapevine 6749
Sedum spp. 8932	induction	oxygen concentration
strawberry, annual report, UK 1856 sugar carle 9264	strawberry	bean (<i>Phaseolus</i>) 2025, 7709
tomato 6925	annual report Netherlands 6670	radish 7709 ozone, bean (<i>Phaseolus</i>) 8681
Xanthium spp. 1347	UK 3533	phosphorus nutrition, tomato 6907
flowering 7051	strawberry 8521-8523	physiology 4
Aeschynanthus spp. 7951 alstroemeria 6990, 7875	shoot . growth	bean (<i>Vicia</i>) 4491–4492 tomato 4578
Bassella alba 602	black currant 104	plant nutrition
chrysanthemum 3296 date	Sedum spp. 8932 tea 4901	citrus 9100
carnation 6968	sugars, biosynthesis, Salvia sclarea 7085	strawberry 5815 vegetables 8693
chrysanthemum, annual report, UK	tuber, development, dahlia 4653	productivity
4605 <i>Limonium</i> spp. 6996	varietal behaviour, sugar cane 8250 water relations	estimation 2681
Saccharum spp. 1646	grapevine 2725	gooseberry 2681 pear 5053
Salvia spp. 1348	sugar cane 4102	propagation methods, grapevine 1092
sugar cane 8250 Euphorbia fulgens 6237	winter hardiness, tree fruits, annual report, Canada 8314	pruning and training, apple 4185, 4192, 7395
holly 6215	Photosynthesis 3, 3296, 3332	red light, vegetables 7806
lily 3870, 4658	air movement, apple 3413	respiration 3296
onion 602 poinsettia 3914	annual report, Australia 6769 apple, annual report, UK 8317	leaf bean (<i>Phaseolus</i>) 7709
secondary, strawberry 3555	bean (Phaseolus) 184	radish 7709
sugar cane 2465	bean (Vicia) 202	plant, bean (<i>Phaseolus</i>) 188
Zygocactus spp. 7028 forcing, strawberry 5820	carbon dioxide uptake apple 6573	root, relationships, lemon 6353 root hydrostatic pressure, capsicum 875:
frost resistance, black currant 4310, 6671	bean (Phaseolus) 5984	rootstock-scion relationships, apple 7356
fruit, composition, tomato 602 fruiting	mechanism, geranium 2508	rootstock vigour, apple 2573 seasonal variations, ivy 3913
autumn, strawberry 1889–1890	varietal differences, apple 3412 carbon monoxide, sugar cane 9261	seedling, seed treatment, raspberry 5807
strawberry 8521-8523	chloroplast, number, brassicas 8628	seedling variation, oil palm 9184
growth holly 6215	citrus, annual report, Australia 1466 cold treatment, sugar cane 8247	shoot relationships, lemon 6353
lily 3870, 4658	crown foliar density, apple 7395	ringing, lemon 6353
tomato 6925	after dark treatment, bean (Phaseolus)	soil moisture
growth substances endogenous	5985, 8694 diseased plants	beetroot 6092 spinach beet 6092
blueberry 3530	Luffa spp. 3684	tomato 6092
grapevine 6759	sugar cane 8247	soil pH, Schizandra chinensis 8968
growth substances, impatiens 7883	tomato 6095 diurnal fluctuations, beetroot 124	study, apparatus 870 sunlight utilization, grapevine 8565
light	drought, temperate tree fruits 908	temperature
rose 6230	environmental factors, tree fruits 7325 enzyme activity	beán (<i>Phaseolus</i>) 5984–5985 greenhouse crops 5683
tagetés 2217	capsicum 6044	ivy 3913
temperature	sugar cane 8248, 9260	Tillandsioideae 305
tagetes 2217 begonia 1356, 6168	far red light, vegetables 7806 fluorescence 1673	toxins, fusicoccin, bean (<i>Phaseolus</i>) 3712 transpiration, bean (<i>Phaseolus</i>) 2793
lettuce 1975	fruiting relationships	vegetables, annual report, Australia 113
Malvaviscus arboreus 5484	apple 4991, 6573 coffee, annual report, Kenya 3191	water relations peach, annual report, Australia 450
onion 602 ornamentals 6200	tomato 4579	tea 4112
rose 6230 ·	gas exchange ratio	Phragmidium mucronatum
latitude 5678 leaf	cauliflower and broccoli 2915 ornamental plants 2915	rose diseases 6228 annual report, German Federal
composition, apple 50	growth substances	Republic 6959, 7843
senescence, Tabernaemontana spp.	bean (Phaseolus) 2799	varietal resistance, rose diseases 8950
8969 light	herbicides, tea 8265	P. spp., varietal resistance, rose diseases 4709
sources	inhibition	Phthorimaea operculella, control, tomato
compared capsicum 236	anti-transpirants, vegetables 3333 frost, injury, cucumber and gherkin	pests 6921 Phyla nodiflora, ground cover plants,
lily 3870, 4658	2003	growth retardants 6157
trees and shrubs 5485	irrigation, grapevine 4344	Phyllachora musicola, varietal resistance,
nitrate accumulation, vegetables 1144 nitrogen	leaf age, mandarin and tangerine 5568 leaf-fruit relationships, apple 5745	banana diseases 1540 Phyllanthus acidus pests, Aleyrodes
metabolism	leaf growth, capsicum 6044	sizoukinensis 2481
capsicum 8754	leaf nitrogen content, mandarin and	P. emblica ascorbic acid, content, Penicillium
melon (cantaloup and musk) 8754 orange 8754	tangerine 5568 leaf tearing	oxalicum 7274
ornamental plants, annual report, USA	Musa ssp. 382	diseases, Penicillium oxalicum 7274
6129 photosynthesis, grapevine 2725	Strelitzia spp. 382 leaf temperature, tree fruits 7325	Phyllocnistis citrella citrus pests 367
pinching, poinsettia 3914	light intensity	disease complex, citrus pests 5562
plant	apple 3413, 7395	Phyllocoptes abaenus, plum pests 2658
composition, sapogenins, <i>Dioscorea</i> spp. 356	bean (<i>Phaseolus</i>) 2025, 2793 celery 2901	Phyllocoptruta oleivora citrus pests 3137
growth, pea 8726	greenhouse crops 5683	control, orange pests 8080
proteins, biosynthesis, Salvia sclarea	potassium nutrition, cucumber and	Orange pests 6349
7085 responses, vegetables, annual report, Irish	gherkin 5958 rhubarb 2901	Phyllosticta gerberae, gerbera diseases 2200
Republic 5150	tree fruits 7325	P. phaseolina, symptoms, bean (Phaseolus)
root 5275	manganese nutrition, grapevine 1111 measurement, methods, tissue culture,	diseases 7706 P. prunicola
composition, carrot 5375 development, trees and shrubs, annual	cucumber and gherkin 4457	fruit trees and plants, diseases 6657
report, USA 3835	measurement equipment, types compared	grapevine diseases 6657
exudate, bean (Vicia) 7725 growth, leek 5300	8292 nitrogen nutrition, tomato 6907	ornamental plants, diseases 6657 plum diseases 6657
0		

Phylloctiata contd	Phytophthora cactorum contd.	Phytophthora nicotianae contd.
Phyllosticta contd. P. spinacea, varietal resistance, spinach	incidence, gooseberry diseases, annual	saintpaulia diseases 8878
diseases 7616	report, German Federal Republic	tomato diseases 6087
Phyllotreta spp., annual report, Sarawak,	6669	annual report, Netherlands 6772
vegetables, pests 3609	resistance, seasonal variations, apple	P. palmivora
Phylloxera spp.	diseases 7381	alternative host, banana, cacao diseases
arboricides, grapevine pests 581	strawberry diseases 1071 annual report	830 banana diseases 830
control cultural methods, grapevine pests 6723	Belgium 1060	cacao diseases 3182, 4846
grapevine pests 7578	Netherlands 5073, 6670	annual report, Ghana 7177
host cytology, grapevine pests 8564	UK 3514	clonal resistance, rubber diseases 8181
resistance	varietal resistance, apple diseases 7381	coconut diseases
breeding and selection, grapevine pests	phytoalexins, production, capsicum	annual report Jamaica 4851
5825 grapevine pests 7577	diseases 1268	Sri Lanka 7185
rootstock resistance, grapevine pests	resistance, breeding and selection,	control
6721	capsicum diseases 4531	pepper, black, diseases 6384
varietal resistance, grapevine pests 8564	P. cinnamomi	rubber diseases 6384
P. vastatrix book 574	container-grown plants, diseases, annual report, UK 8838	host reactions, cacao diseases 8136 incidence, cacao diseases 3183
leaf metabolism, grapevine pests 7579	fruit trees and plants, diseases 7318	nursery stock, cacao diseases 8135
P. vitifoliae	grapevine diseases 7576	pod anatomy, cacao diseases 1552
grapevine pests 2724	host nutrition, azalea diseases 6225	resistance
integrated control, grapevine pests 1921	incidence, South Africa, grapevine diseases 5130	breeding and selection, cacao diseases 9139
population survey, South Africa, grapevine pests 4352	nursery stock, diseases 7318	pepper, black, diseases, annual report,
predators, <i>Trombidium</i> spp., grapevine	relative humidity, azalea diseases 6225	Sarawak 3933
pests 1921	resistance, breeding and selection,	review, cacao diseases 386
resistance, grapevine pests 2728	blueberry diseases 5090	rubber diseases 8184
Phymatotrichum omnivorum	temperature, azalea diseases 6225	P. parasitica
apple diseases 4257 peach diseases 4257	trees and shrubs, annual report, Netherlands 4604	citrus diseases 2392 control, pepper, black, diseases 6384
Physalospora malorum, control 8305	Venezuela, avocado diseases 9071	guava diseases 4063
P. obtusa	P. cinnamomi, Chamaecyparis spp., diseases,	annual report, India 4034
apple diseases 1749	annual report, Netherlands 6961	hybrid resistance, citrus diseases 6329
control, cultural methods, apple diseases 7380	P. citricola, varietal resistance, hop diseases,	resistance, tomato diseases, annual report, India 3607
incidence, apple diseases 6569	annual report, UK 3954 Phytophthora citrophthora	rootstock resistance, citrus diseases 4787
P. rhodina, mango diseases 1593	citrus diseases 2392, 4001	soil, fumigation, citrus diseases 4787,
P. spp., control, apple diseases 7413	fruit composition, lemon diseases 6347	6348
P. tucumanensis, sugar cane diseases, annual	hybrid resistance, citrus diseases 6329	tomato diseases, annual report report,
report, USA 9221	infection source, irrigation water,	Canada 3603
Physocarpus spp.	grapefruit diseases 9094 pineapple diseases 3249	P. porri leek diseases 661
development, soil temperature 3925	respiration, fruit, lemon diseases 3153	onion diseases, annual report, Netherlands
growth, soil temperature 3925	rootstock resistance	6772
soil	citrus diseases 4787	P. spp.
temperature	annual report, Australia 4782	apple diseases, annual report, UK 8318
root development 3925 root growth 3925	soil, fumigation, citrus diseases 4787 P. cryptogea	avocado diseases, annual report, St. Lucia 8056
Physostegia spp.	gerbera diseases 1338	cacao diseases, annual report, Nigeria
flower	annual report	4035
cut	German Federal Republic 6959	capsicum diseases, annual report, USA
preservatives 4611	Netherlands 6127	4367 citrus diseases 2392
vase life 4611 Phytoalexins 3316	spinach diseases, annual report, German Federal Republic 7599	P. spp., citrus diseases 4803
biosynthesis, bean (<i>Phaseolus</i>) 7719,	P. fragariae	P. spp.
8688	detection, strawberry diseases 1074	citrus diseases
capsicum 7763	resistance, breeding and selection,	annual report
citrus, annual report, Italy 8050	strawberry diseases 7520	Sabah 9075 USA 2375
horticultural crop, review 4137 production	strawberry diseases annual report	control, cacti, diseases 8921
bean (Phaseolus) 7705	Belgium 1060	host amino acids, content, orange diseases
capsicum 1268	Netherlands 5073, 6670	2393
tulip bulb 736	UK 3514	host enzyme activity, tomato diseases
tulip flower 736 Phytochrome	varietal resistance, strawberry diseases 7524–7525	3788 hybrid resistance, tomato diseases 672
biosynthesis, pea 5285	P. infestans	ornamental plants, diseases 2162
book 5687	alternative hosts, tomato diseases 3806	planting density, cacao diseases 8133
chlorophyll	bacterial fertilizers, tomato diseases 6074	resistance, tomato diseases 3788
biosynthesis, mustard 3021	enzyme activity, fruit, tomato diseases	rootstock resistance, apple diseases, annual
metabolism, mustard 3021 -chlorophyll relationships 4937	2891	report, Canada 3370
bean (<i>Phaseolus</i>) 7715	fruit composition, tomato diseases 2891 nitrogen nutrition, tomato diseases 5345	soil, fumigation, raspberry diseases 5087 tomato diseases, annual report, UK 8583
degradation	resistance, tomato diseases, annual report,	varietal resistance, Chamaecyparis spp.,
light	Netherlands 6772	diseases 1387
coloured	tomato diseases	P. syringae, apoplexy relationships, stone
Amaranthus\$spp. 3736 Mirabilis spp. 3736	annual report German Federal Republic 7597	fruits 454 Phytoseiulus persimilis
pea 3736	Irish Republic 1939	predator on
determination, spectrophotometric method	varietal resistance, tomato diseases 3787,	Tetranychus telarius
2766	6900	acaricide resistance 18
growth substances, endogenous, pea 4514	P. megasperma	cucumber and gherkin 1193, 7687
leaf, movements, <i>Albizzia</i> spp. 5265 system	apoplexy relationships, stone fruits 454 bean (<i>Vicia</i>) diseases, annual report, UK	rose 4711
light, supplementary, lily 4658	5153	tomato, annual report, UK 8583 vegetables 7802
photoperiodism, lily 4658	P. nicotianae	Phytotoxins, symposium 4928
Phytomyza atricornis, pea pests 652-653	pineapple diseases 3249	Picea pungens
Phytoncides lemon 3129	control, saintpaulia diseases 7889	taxonomy, terpenes, content 2983
Panax ginseng 6305	incidence, saintpaulia diseases, annual report, German Federal Republic	varieties, identification, chemotaxonomy 2983
Phytophthora cactorum	8837	P. spp.
apple diseases 7382	macadamia diseases 2418	annual report, Netherlands 4604

Subject Index		1083
Picea spp. contd.	Pineapple contd.	Pineapple nutrition contd.
propagation	annual report contd.	potassium
cuttings, treatment, growth substances	India 4034	nitrogen nutrition 9199
3910	Sarawak 4036	phosphorus nutrition 9199
cuttings rooting capacity, growth	Sri Lanka 3171	
substances, endogenous 3910	climate 9194	Pineapple pests 1696
Picramnia pentandra, terpenoids, content	drying 22	Dysmicoccus brevipes 1612
2340		Hanseniella spp. 4074
	economics 9194	nematodes 446, 9202
Pieris rapae	flowering	Brazil 9126
biological control, cabbage pests 1172, 4427, 7657	date, iron nutrition 9200	Pratylenchus brachyurus 9202
cabbage pests 1172	growth substances 1613	Radopholus similis 2394
annual report, Canada 1944, 2734,	propagation, cuttings, size 1613	Rotylenchulus reniformis 2394 Thecla basilides 6417
5883	fungicides	Tylenchulus semipenetrans 2394
control, cabbage pests 7657	injury	Pineapple propagation
P. spp.	bordeaux mixture 3249	butts 4879
brassicas, pests, annual report, German	Brestan 3249	crown segments 4879
Federal Republic 8579	growing	cuttings, size 1613
cabbage pests 5195	Brazil 9195	slip, size 9197
enzyme activity, determination 1063	economics 9194	stem segments 4879
growing 7040	South Africa, economics 5640	Pineapple stem
Pigments (see also Chlorophyll)	Venezuela 8119	bromelain 9204
biosynthesis	harvesting, time of, fruit organic acids	carbohydrates 9204
carbohydrates, rose 1394	9203	Pineapple varieties 7218
Datura spp. 1433	herbicides	disease resistance, Erwinia carotovora
enzyme activity, rose 1395	injury	5641
ethylene, cabbage 3668	diuron 8172	Malaysia 9196
growth substances	monuron 8172	Pinus radiata
2,4-D, rose 1394–1395	prometon 8172	as a rootstock, <i>Pinus</i> spp. 5461
orchids 7029	persistence	varieties, El Dorado 5461
pea 7738	ametryne 8172	P. spp.
inhibition	atrazine 8172	diseases, <i>Periderium harknessii</i> , varietal
celosia 6994	prometryne 8172	incidence 5461
growth substances, cress 8986	insecticides, residues, determination,	propagation, cuttings 5461
light	monocrotophos 7302	P. sylvestris, as medicinal plants 5538
cabbage 3668	intercropping 9198	Piper betle
celosia 6994	packing, plastic, bags, disorder incidence	diseases
intensity, rose 1394	6419	Colletotrichum capsici
storage, tomato 8803	planting	damage 1459
temperature, tomato 241	material, size 9197	incidence 1459
tissue culture, hydrangea 7055	spacing 4073	Fusarium equiseti 7118
content	potassium, content, leaf, iron nutrition	F. moniliforme 7118
bean (Phaseolus) 8705	9200	F. oxysporum 7118
bean (Vicia) 8705	production and trade 6416	F. solani 7118
chimeras, privet 8963	products and by-products	P. cubeba, essential oil, composition 7965
determination, beetroot 5902	bran, animal fodder 4880	P. methysticum, root, composition 1452
diseased plants	juice, organic acids, content 9203	Pistachio Pistachio
yellow mosaic, privet 8963	various, animal fodder 7220	annual report, Tunisia 4944
yellow vein mosaic, okra 6887	report, USA 6382	biennial bearing 1039
flower	research 9194	flower bud, drop, fruit relationships
breeding and selection, rhododendron	review 402	994, 3503
7041	storage	growing, Israel 5058
statice 8877	controlled atmosphere 6418	pruning and training, container-grown
genetics, carnation 711	temperature, disorder incidence 6419	2275
iron nutrition, apple 6563	temperature, transpiration 8174	ringing, bud, abscission 1039
leaf	transpiration, temperature 8174	Pistachio diseases, Nematospora coryli
Digitalis spp. 7107	transport, containers, refrigerated, design	6653
fluorine toxicity, coleus 8922	1614	Pistachio flower
ornamental trees and shrubs 744	weed control 7219, 8172-8173	bud drop
legumes 8705	review 8121	fruit relationships, biennial bearing
plant development, Sternbergia lutea	Pineapple diseases	994
6190	Erwinia carotovora, varietal resistance	growth substances, PCPA 994
plant nutrition, tomato 6077	5641	Pistachio growth substances
seed treatment, gamma rays, onion	Phytophthora citrophthora 3249	bud, abscission, PCPA 1039
8738	P. nicotianae, 3249	flower bud, drop, PCPA 994
seedling, growth substances, lettuce	Pythium polymorphon 3249	Pistachio rootstocks, comparative trials,
6789	Thielaviopsis paradoxa 9201	Israel 5058
degradation	T. spp. 3249	Pistachio varieties
chilling, cucumber and gherkin 4459	Pineapple disorders, internal browning	Israel 5058
light, intensity, cucumber and gherkin	6419	Tunisia 4155
4459	Pineapple flower	Pistacia lentiscus, water, flow 2369
oxygen concentration, cucumber and	initiation	P. spp., as a rootstock, pistachio 5058
gherkin 4459	Ivory Coast 8175	Pitcairnia spp., trichome, anatomy,
determination, rhododendron 7041	sunshine 8175	morphology 6199
genetics, Kalmia angustifolia 322	Pineapple fruit	Pittosporum
metabolism	aroma 7171	annual report, USA 8834
flower, chrysanthemum 273	quality, iron nutrition 9200	herbicides, injury, dichlobenil 8851
fruit, citrus 4005	ripening, iron nutrition 9200	Pittosporum soil, salinity, plant, tolerance
light, radish 2766	Pineapple growth substances	2161
tea, annual report, Malawi 6455	flowering	Plagiognathus politus, predator on,
Pimenta racemosa, bibliography 7967	2,4-D 1613	Panonychus ulmi, apple 4213
Pimento, essential oil, composition 7965	NAA 1613	Planococcus citri
Pimpinella anisum, bibliography 7967	Pineapple leaf, analysis, methods compared	citrus pests 4003
P. spp.	3302	population studies, cacao pests, annual
growing, Czechoslovakia 2368	Pineapple nutrition	report, Ghana 7177
root, composition 2368	iron 9200	Plant, analysis, liquid scintillation counting,
Pine leaf-mould	deficiency, symptoms 9200	tissue preparation 4912
media constituent	nitrogen	Plant composition, review, report, German
azalea 7942	phosphorus nutrition 9199	Federal Republic 8284
physical properties 7291	potassium nutrition 9199	Plant nutrition, nitrogen, report, German
Pineapple Pineapple	phosphorus	Federal Republic 8284
annual report	nitrogen nutrition 9199	Plant pathology .
Australia 1529, 9121	potassium nutrition 9199	Hungary, review 3316

Plant pathology contd.	Plasmodiophora brassicae contd.	Plastic contd.
India, review 3316	resistance	films contd.
Plant physiology	breeding and selection	storage, fruit, plum 3512
book 6475	brassicas 3652	storing, cuttings, grapevine 1087
crop yields, symposium 4	swede diseases 4426 cabbage, annual report, German Federal	vegetables, annual report, Yugoslavia 3619
Plantago ovata growth substances	Republic 7599	foam, soil amendments, pot plants 8850
seed	soil moisture, cabbage diseases 6797	greenhouses
production	soil pH, cabbage diseases 6797	Finland 2738
2,4-D 9046	spore numbers, cabbage diseases 6797	mushroom growing 8833
IAA 9046	varietal resistance brassicas 7640	Sweden 2738 vegetables, annual report, UK 5154
IBA 9046 NAA 9046	cabbage diseases 5920	materials
seed, production, growth substances	cauliflower and broccoli diseases 5920	use
9046	Plasmopara spp., spore numbers, grapevine	growing leek 2738
Planting	diseases 5858 P. viticola	strawberry 2738, 7531
anti-transpirants	grapevine diseases, annual report, India	horticultural 1879, 5682
annuals 3333 orange 6355	2668	symposium 2738
bed systems, apple, annual report, UK	incidence, foliar nutrition, minor elements, grapevine diseases 7568	mats, irrigation, chrysanthemum 8859 mulch 5682
3371	resistance, breeding and selection,	cabbage 2758
v direct sown	grapevine diseases 5825	capsicum 4538, 6889
cabbage, chinese 3663 economics, tomato 3795	Plastic amendments, potting composts,	cucumber and gherkin 4449 annual report, Belgium 8578
melon (cantaloup and musk) 3680	philodendron 4679	disease incidence
high density	bags	tea 5662
apple 464, 925, 1729, 1737, 2548,	coloured	tomato 4570
3390, 3401	covering fruit bunches, bird damage prevention, date 2417	flood protection, annual report, Canada 2734
annual report Irish Republic 1720	ethylene, production 898	fruit, pigments, capsicum 6037
UK 903, 3371	fruit, pigments, tomato 2136	lettuce 2753
for juice production 1738	mushroom growing 1310–1311	melon (cantaloup and musk) 3680, 7679
cherry 995	annual report, Irish Republic 1939, 6770	nursery stock 6214
citrus, report, Sri Lanka 6323	seedling, raising, coconut 1558	onion 3762
coffee 7195 economics, apple 463	storage	raspberry 3524
fruit trees and plants 2558	fruit 5747 apple 1791	red currant 7495 soft fruit, annual report, Yugoslavia
lemon 3104	orange 3150	3517
light, interception, fruit trees and plants	pear 3498	soil .
1710 light intensity, mandarin and tangerine	runners, strawberry 3544 seedlings, cauliflower and broccoli	capsicum 6037 moisture 6037
8064	7638	temperature 6037
mechanical, apple 1726	coatings	strawberry 1879, 2738, 4327, 6696,
olive 2421, 4025 pear 3489	fruit storage, apple 984	6699, 7529, 7531
pome fruits, annual report 450	sett, sugar cane 6430 collar, seedling raising, vegetables, annual	sugar cane, annual report, South Africa 7230
mechanical	report, Netherlands 8581	tomato 7779
apple 1726	containers	vegetables 4377–4378
fruit trees and plants 2511 sugar cane 1621	horticultural produce, annual report, Netherlands 5	annual report, Austria 114 water conservation, tomato 3799
onion 6027	packing 5682	watermelon 7682
plant, size, apple 3401	strawberry 1879	weed control
root pruning, trees and shrubs 3007 site preparation	planting, material, storage, strawberry 1879	melon (cantaloup and musk) 7680–7681
forest tree felling	seedling transport, vegetables 4375	rubber 4077
arboricides, disease incidence, rubber	covering plants 5682	tomato 3798
7223 ringing, disease incidence, rubber	bedding plants, annual report, UK 3833	pots, nursery stock 2493, 6214
7223	grapevine 1097	string, training, hop 5507 tunnels
spacing	holly 7037	cabbage 2758
apple 3401	pot plants, annual report, UK 3833	carnation 5398
chrysanthemum 6143 disorder incidence, cauliflower and	propagation, conifers 4688 rain protection, date, annual report,	clear v. coloured, strawberry 1878 cucumber and gherkin 4449
broccoli 3657	. Tunisia 3981	frost protection
harvesting, mechanical, black current	tomato 3796	mandarin and tangerine 7130
3519 lemon 3104	vegetables annual report	by sprinkler irrigation, bean (<i>Phaseolus</i>) 2016
light intensity, mandarin and tangerine	Netherlands 1132	grapevine 1099
8064	UK 3613	heat loss, annual report, Irish Republic
pruning and training, pear 3489 root systems	films	late horizotine etropyhoriz 9521 9522
apple 1740	covering plants disease incidence, onion 4523	late harvesting, strawberry 8521-8522 lettuce 1686, 2753
olive 4025	forcing, peach 3480	melon (cantaloup and musk) 7679,
vegetables 5923 systems	grapevine 1901	8646
light, interception, fruit trees and plants	propagation trees and shrubs 6134	onion 3760 overwintering, strawberry 6700
1708	annual report, Irish Republic	planting dates, strawberry, annual
pollination, apple 7403	2909	report, Irish Republic 1857
work studies, tulip 1317 Plasmodiophora brassicae	spring harvesting, watermelon 3678	propagation
assessment methods	strawberry 3546 vegetables 679	ornamental plants 2166 rose 5475
swede diseases 5165	frost protection, tree fruits 3358	trees and shrubs, annual report, Irisl
turnip diseases 5165 brassicas	graft union protection, apple 5714	Republic 2909
annual report, UK 1936	packing fruit	rainfall protection, vegetables 5166 rhubarb 1260–1261
diseases 7655	apple 5753	spring harvesting, watermelon 3678
annual report, Australia 5882 brussels sprouts diseases 5194	mango 4871	strawberry 1686, 7531
cabbage diseases 5193	for making pots, seedling raising, vegetables 2865	annual report, UK 5096 strength 7293
growth substances, endogenous, cabbage	protection of drying tables, coffee	types compared
diseases 8623	7107	annual samest Isiah Donublia 6492

Subject index		108.
Plastic contd.	Plum contd.	Plum diseases contd.
tunnels contd.	growing	Polystigma rubrum, varietal resistance
		6658
types compared contd.	high altitudes, India 7311 UK, economics 6654	
fruit, set, capsicum 6889		prune dwarf 4948
strawberry 3554	growth studies, seasonal variations 6661	Prunus necrotic ringspot, incidence, New
annual report, Belgium 4297	harvesting	Zealand 7474
vegetables 1945	fruit, loosening 6662	Prunus ringspot, pollen-borne 7475
variety trials, carrot 8808	mechanical	Sclerotinia fructicola 8475
vegetables 1261	equipment 457	post-harvest dips 7481
annual report	pruning and training 1848	stem pitting 3474
German Federal Republic 7600	herbicides 3322	Stereum purpureum
UK 6774	injury	biological control 8476
ventilation, strawberry 7530 water conservation, tomato 3799	simazine 4188 terbacil 3510	Trichoderma viride 6659
weed control, lettuce, annual report,	residues, determination, 2,4-D 6514	varietal resistance 93 Verticillium dahliae, toxins 5062
UK 5885	tolerance 3510	virus
water-filled mattress, frost protection,	high density planting, Switzerland,	annual report, German Federal
vegetables, annual report, Netherlands	statistics 8324	Republic 6506
8581	hybrids 3505	control 7320
Platinum, toxicity, cucumber and gherkin	insecticides, application, economics 4153	-tested plants
157	irrigation, requirements 4160	EMLA scheme 2528
Platyparea poeciloptera	mulching, sawdust 4191	Special Stock Certification Scheme
asparagus pests, annual report, German	nitrogen, content, fruit, development	7320
Federal Republic 8579	6663	German Democratic Republic 7321
insecticides, application, asparagus pests,	phosphorus, content, fruit, development	Xanthomonas pruni, varietal resistance
annual report, German Federal	6663	3507, 5060, 7470
Republic 7598	planting	Plum disorders
Plectonema boryanum, alga, irradiation,	high density, Switzerland 904	apoplexy, fungus relationships,
gamma rays, injury, reduction, tomato 6097	survey, Switzerland 904	Phytophthora spp. 454
	pollen germination 8330	premature decline 7467
Pleocyta sacchari, sugar cane diseases, annual report, USA 9221		Stanley Prune decline 1851 sun scald 522
Pleospora herbarum	morphology 8330 pollination 1853, 5063	tree desiccation
onion diseases, annual report, Netherlands	compatibility 3511	soil aeration 7471
6772	pollinating varieties 2659	soil moisture 7471
tomato diseases 242	self- 2659	Plum flower
P. papaveracea, heat treatment, poppy	supplementary 6582	bud initiation 4290
diseases, annual report, Australia 5385	potassium	nitrogen nutrition 2530
Plesiocoris rugicollis, black currant pests	content	phosphorus nutrition 2530
5802	fruit	rootstocks 2530
Pleurotus ostreatus	development 6663	soil management 2530
edible fungi 2907	nitrogen nutrition 7473	time 6661
growing, Bulgaria 8831	leaf, nitrogen nutrition 7473	morphology, growth correlations 4164
nitrogen, fixing 8830	processing drying	Plum fruit amino acids, content 6834, 8667
Pleurotus spp., edible fungi 6124, 6958 Plum	fruit selection 5065	composition 1846, 2661
annual report	varieties 1846–1847	potassium nutrition 7473
Australia 5693	propagation, cuttings 1807	rootstocks 5798
Belgium 6503	pruning and training	development, composition 6663
Netherlands 23	mechanical, equipment 5703	loosening
UK 903, 3347, 8316, 8318	mechanical harvesting 1848	growth substances 6662
USA 24, 3348	palmette 1849	ethephon 5801
breeding and selection	time of 4288	quality 2661
annual report	respiration	ripening, storage, pre-cooling 525
Canada 8314	enzyme activity 7477	set, temperature 8477
Sweden 6508	frost resistance 7477	Size
USA 451	as a rootstock	nitrogen nutrition 7473 rootstocks 5798
interspecific hybridization 4244	damson 1040	sugars, content 6834, 8667, 8667
carbohydrates, content, seasonal variations	peach 3468 storage	thinning
classification, Yugoslavia 7468	annual report, Australia 901	annual report, UK 3371
defoliation	cold 3512	growth substances 7479
calcium cyanide 6512	pre-cooling, fruit, ripening 525	mechanical, shaker 524
chemical 5716, 6510-6511	temperature	wax, composition 5064
growth substances 6511	bud, development 1709	Plum growth substances
magnesium chlorate 6512	dormancy, breaking 907	cuttings, treatment, IBA 5061
potassium iodide 6512	fruit, set 8477	endogenous, seed 2523
dormancy	transport 7426	fruit
breaking, temperature 907	containers, refrigerated 7426 in water 1718	loosening, ethephon 5801, 6662
winter hardiness, water relations 6521	tree, volume, estimation 8452	thinning, 2,4,5-T 7479 injury, ethephon 7314
drought 8285 economics	water relations	leaf, removal, ethephon 6511, 7314
insecticides, application, Italy 4153	dormancy 6521	responses
UK 6654	premature decline 7467	aminozide 3360
enzyme activity	weed control	chlormequat, review 8310
frost resistance 7477	annual report, Belgium 2517	Plum leaf
respiration 7477	nurseries 4188	analysis, sampling, position 6552
enzymes 523	winter hardiness	cell sap, concentration, seasonal variations
frost	dormancy 6521	916
injury	leaf removal 6521	nitrogen, content 6552
bud developent 1709	Plum diseases	phosphorus, content 6552
flower bud, development 4290	chlorotic leaf roll 6608	potassium, content 6552
resistance	dark green sunken mottle, incidence, New Zealand 7474	removal, chemical 6510–6511, 7314 Plum nutrition
enzyme activity 7477	line pattern 4948	general, leaf analysis, symposium 2489
respiration 7477	mosaic, incidence, New Zealand 7474	nitrogen
fungicides residues	peach seedling chlorosis, incidence, New	fruit, size 7473
determination	Zealand 7474	potassium content 7473
binapacryl 7324	Phomopsis spp., infection process 7449	potassium nutrition 7473
captafol 2505	Phyllosticta prunicola 6657	NPK, leaf analysis, sampling 6552
captan 2505	plum pox 4948, 8474	potassium
folipet 2505	varietal resistance 7469	fruit, composition 7473
respiration, leaf 4951	plum pox virus, symptom expression 91	nitrogen nutrition 7473

Plum × peach, hybrids 4244	Plum varieties contd.	Podosphaera spp. contd.
Plum pests .	Seneca 5796 Songold 3507, 7470	cherry diseases, annual report, USA
Aculops berochensis 2658 Aculus fokeui 2658	Stanley 4286	8319
Conotrachelus nenuphar 4289	USA, winter hardiness 3358	Pogostemon cablin
Diptacus gigantorhynchus 2658	USSR 2521	essential oil
Grapholitha funebrana 6660	virus-tested clones, EMLA scheme 2528,	composition, determination 8990 nutrition, annual report, Sarawak 393
biological control 6660 Hemicriconemoides chitwoodi 5132	7320 Plumbago spp.	terpenes, biosynthesis 3036
mites, biological control 29	flower development 323	terpenes 3036
Panonychus ulmi 81	quinones 3003	P. spp.
Phyllocoptes abaenus 2658 Quadraspidiotus perniciosus, control	P. spp, seed, development 323 Plumeria spp., value 7962	pests, Meloidogyne incognita 336
7476	Plutella maculipennis	tissue culture cell suspension
Scolytus mediterraneus, host preference	cabbage pests 7658	growth studies 7083
94 Plum propagation 26	annual report, USA 4367 control, cabbage pests 6798, 8626	nutrient absorption 7083
budding, nutrition 931	P. xylostella	Poinsettia annual report
cuttings	annual report, Sarawak, vegetables, pests 3609	Austria 265
root, treatment, growth substances, IBA 8323	biological control, cabbage pests 4427	Irish Republic 2909
treatment	cabbage pests 5195	UK 4606
growth substances 5061	parasites, crucifers, pests 4430 Poa annua	USA 1441, 6129, 8834 dwarfing
nursery stock, defoliation 5716	lawns and sports turf, Finland 7020	growth substances 2984, 4695
Plum root	as weeds	chlormequat 4696
growth soil moisture 6656	annual report, USA 1315 gladiolus 6175	flowering date 4699
soil temperature 6656	lawns and sports turf, taxonomic studies	light
Plum rootstocks	7916	artificial 8841
calcium, absorption 2657	strawberry 8510 P. pratensis	supplementary 8841 photoperiodism 3914
comparative trials Australia 5798	diseases, Helminthosporium sativum, host	pinching 3914
Rumania 7341	enzyme activity 740	growing
flower bud, initiation 2530	lawns and sports turf breeding and selection, disease	in greenhouses glass 8841
Marianna 2657 Myrobalan 2657	resistance 6195	plastic 8841
peach seedling 2657	car parks 7919	media, coal ash 8857
propagation	Finland 7020 mowing	peat 6219 growth, apical dominance, growth
cuttings, treatment, growth substances 3508–3509	height 7924	substances 4697
stooling 3508	population studies 8916	insecticides, injury, chlorfenvinphos 894
-scion relationships 1040 leaf, nutrients, content 2657	nitrogen nutrition, population studies 8916	light artificial
St. Julien A 2657	weed control 5443	equipment 8841
propagation 3509	seed, production 3896	flowering 8841
virus-tested plants, EMLA scheme 7320 Plum seed	P. spp. breeding and selection, lawn grasses	ozone injury
germination, metabolic processes 2523	1370	leaf 3916
treatment, stratification, metabolic	chromosome, numbers 1370	prevention, growth substances 8946
processes 2523 Plum soil	grasses, lawns and sports turf, weed control 738	photoperiodism flowering 3914
aeration, tree desiccation 7471	lawns and sports turf	pinching 3914, 4698
moisture	breeding and selection 3884	physiology, annual report, USA 3835
root growth 6656 tree desiccation 7471	cold, resistance 304 irrigation, requirements 8915	pinching chemical 6218
temperature, root growth 6656	tree root competition 303	flowering date 4699
Plum varieties	UK 7917	photoperiodism 3914, 4698
annual report, USA 1706, 3349 Bleue de Belgique 6530	variety trials 7021 weed control 8913	pruning and training 2984 chemical
Blue Rock 6530	weed incidence 8915	growth substances 6218
Byala Razgradska 2655 comparative studies, South Africa 8322	Yugoslavia 7915 orchard tracks 3890	pinching 6218 report, USA 6130
comparative studies, south Africa 8322	root, development, turf 302	sulphur dioxide, injury, prevention,
annual report, Netherlands 5697	as weeds, lawns and sports turf 5446,	growth substances 8946
Bulgaria 2655 Yugoslavia 2660, 3506	7922, 8913 Podocarpus spp.	temperature 2984 Poinsettia diseases
Desertna 7469	growth substances, responses, GA, annual	Botrytis cinerea, varietal resistance 391
disease incidence, plum pox 8474	report, USA 6129	Erwinia carotovora 3915
disease resistance Polystigma rubrum 6658	propagation, cuttings, shoot, age 2982 Podosphaera leucotricha	Pythium ultimum 2283 Rhizoctonia solani 2283
Xanthomonas pruni 3507	apple diseases 45, 473, 1747, 3408,	Poinsettia flower
drought resistance 4287	4210–4211, 5731–5732, 7386	bract, size, growth substances 6219
flowering, date 5063 fruit	annual report German Federal Republic 4943,	injury, insecticides 8945 Poinsettia growth substances
cracking 4286	6506	branching
quality 2661 Gabrovska 6655	Netherlands 5697-5698	BA 2284 ethephon 2284
pollinating varieties 6655	UK 903, 3371, 8318 USA 24	kinetin 4697
growth studies 7472	chemical pruning, apple diseases 2576	PBA 2284
Harry Pickstone 5060 heat resistance 4287	control apple diseases 6560, 7323, 7384–7385,	TIBA 2284 dwarfing
identification, shoots, nursery 3354	7387–7388, 8391, 8482	aminozide 4695
Italy 1846–1847	annual report, German Federal	Ancymidol 1390
Julka 2656 Kyustendilska 2655	Republic 7309 damage, apple diseases 953	chlormequat 1389, 2984, 4695–4696 Pericetac 4695
Monforska 2655	incidence, apple diseases 7383	injury
pollen compatibility 2659, 3511	resistance, apple diseases 2539	ancymidol * 8946
Požegača 3505–3506 processing, drying 1846–1847	varietal resistance, apple diseases 953,	chlorosis, chlormequat 1389 ozone injury
register, USA 4156	3377, 7336, 8380	prevention
Rhodesia 5764	P. spp.	ancymidol 8946
Sanctus Hubertus 6530	control 8305	chlormequat 8946

		1000
Poinsettia growth substances contd.	Pollen contd.	Pollination contd.
pinching	tissue culture contd.	pollinating varieties contd.
BA 6218	ornamentals 707	pear 5789
ethephon 6218	petunia 6153	review, walnut 25
PBA 6218	tomato 6929	time from flowering, fruit, set, capsicum
TIBA 6218	viability	6045
responses, chlormequat 8842	brassicas 2763	windbreaks, apple 4222
retardants, chlormequat 6219	raspberry 5088	Pollution, metal toxicity, industrial sources
retardation ancymidol 8946	salsify 140 scions treatment, gamma rays, apple	3299 . Polyalthia longifolia
chlormequat 8946	3415	essential oil
sulphur dioxide injury	seed	fungicidal properties 6256
prevention	treatment	medicinal properties 3016
ancymidol 8946	okra, annual report, India 3607	Polyembryony
chlormequat 8946	tomato 245	cacao 4842
Poinsettia leaf	sugar cane, annual report, USA 9221	citrus 9079
colour, calcium nutrition 6219	varietal differences, narcissus 8899	induction, tissue culture, Ammi spp.
injury, insecticides 8945 Poinsettia nutrition 1325	Pollen tube	1447
calcium	growth apple, annual report, UK 903	Polygonum convolvulus, as weeds, vegetables, herbs 6777
leaf, colour 6219	coffee, annual report, UK 2449	P. coriarium
toxicity 282	ornamentals 707	glycosides 6309
fertilizers	petunia 6155	phenolic compounds 6308-6309
liquid 2984	nuclei, petunia 6155	P. spp.
slow-release 2282, 2984	Pollination	as weeds
interaction, growth substances 1389	amino acid, biosynthesis, <i>Oenothera</i> spp.	bean (Phaseolus) 8683
Poinsettia propagation	6998	tea 9272
cuttings	artificial	tomato 6069
source plants, treatment, growth substances 2284	apple 7405 annual report, UK 903	Polyploid, induction, tissue culture, sugar cane 403
temperature 8867	capsicum 2840	Polyploids
time 4699	grapevine 5142	cucumber and gherkin 8643
treatment	melon (cantaloup and musk) 4462	haploid induction from, strawberry 8501
growth substances 2281	methods compared, tomato 5363-5364	induction, sapodilla 9218
SADH 713	pear 6647	Polystichum spp.
Poinsettia varieties	seed production	diseases, Ascochyta necans 1377
comparative trials, USA 2280	cacao 3180	light, intensity, frond, weight 8931
disease resistance, <i>Botrytis cinerea</i> 3916 Pollen	coconut 5615 lily 2952	nutrition, NPK 8931
collection, fluid-bed dryer, coconut 9160	bees	soil, amendments, peat 8931 Polystigma rubrum
germination	blueberry 536, 1066	varietal resistance
boron nutrition, trees and shrubs 3000	annual report, Canada 6668	apricot diseases 7420
calcium nutrition	cucurbits 3692	plum diseases 6658
fluorine toxicity	nesting sites, blueberry 6689	Pome fruits
cucumber and gherkin 6932	Osmia cornifrons, apple 1780	diseases, latent viruses 4948
tomato 6932	seed production, vegetables 5899	economics, Netherlands 4150
enzyme activity	compatibility	frost
eschscholtzia 2213	genetics, chrysanthemum 8858	injury
Haemanthus albiflos 8910	plum 3511 cross- and self- compared	critical temperatures 4159 flower, development 4158
fluorine toxicity calcium nutrition	fruit set	grading, work studies 917
cucumber and gherkin 6932	apple 2593	growing, Argentina 1707
tomato 6932	black currant 4312	harvesting, mechanical, equipment 8411
humidity, lily 7010	pear 6647	storage, buildings, controlled atmosphere
lily, annual report, USA 8839	raspberry 5088	483
media	grapevine 5142	thinning 456
Eugenia cuminii 2482	primula 6156	chemical 456
pear 5790	double fertilization, <i>Tulipa</i> spp. 2960 electrical potential	yield, estimation, methods compared 979 Pomegranate
nucleic acids apple 2651	brussels sprouts 1175	dye plants 3943
pear 2651	cabbage 1175	fungicides
radish 7671	ethylene, production, Cymbidium spp.	application
RNA, synthesis, petunia 275	6209	packing straw
temperature	flower	ammonium compounds 9118
apple 7404	biology, watermelon 4461	diphenylamine 9118
pear 5790	colour, Oncidium spp. 4681	sulphur compounds 9118
tree fruits 8330	flowering, date, plum 5063	medicinal properties 4753 packing, straw, fungicides 9118
morphology Luffa spp. 7694	Forcipomyia spp., cacao 2445 fruit	pollen, studies 8116
radish 7670	development, mulberry 7439	Pomegranate diseases
tree fruits 8330	parthenocarpy, pear 6649	Discosia punicae 1526
ozone, injury, petunia 1340	set, pear 6649	Rhizopus arrhizus, packing straw
physiology	insects	treatment 9118
Luffa spp. 7694	apple, annual report, UK 903	Pomegranate fruit, cracking 4030
radish 7670	black currant 7501	Pomegranate pests, mites, biological control
processing, apple, annual report, UK	horticultural crops, review 7282	29 Pomography propagation
903	mechanical	Pomegranate propagation
production coconut 5615	methods compared date 1515	root, treatment, growth substances, IBA
temperature, hazel 3454	tomato 1301	8323
protoplasts, isolation, petunia 2202	mechanism	treatment, growth substances, IBA
size, brassicas 2763	brussels sprouts 152	8323
sterility, peach 7454	kale 152	Pomegranate varieties
storage	nucleic acids, biosynthesis, cucumber and	comparative trials, Yugoslavia 4030
oil palm, annual report, Nigeria 9181	gherkin 3693	fruit, cracking 4030
Salvia spp. 1411	pear, annual report, Australia 450	Pometia pinnata, fruit, description 9282
studies	pigments, biosynthesis, <i>Cymbidium</i> spp.	Poncirus trifoliata
lily 5432	6209 pollen mixtures, melon (cantaloup and	breeding and selection 7125 carbohydrates
pomegranate 8116 rubber 8186	musk) 6833	content
statice 6988	pollinating varieties	fruit 9108
tissue culture	apple 8408	leaf 9108
lily 1363	orange 8090	hybrids, interspecific 5545

Donainus trifalista contd	Pot plants contd	Potassium contd.
Poncirus trifoliata contd.	Pot plants contd. irrigation contd.	content contd.
nutrition, iron 1480	methods 1687, 2169, 2914	plant contd.
pests, Tylenchulus semipenetrans, resistance 3100	requirements, determination 2914	diseases, tomato 7798
as a pollinator, orange 8090	nutrition 5389	fruiting, fruit trees and plants 5705
root, composition, coumarin 5570	potting, mechanical, disease incidence	herbicides, simazine, strawberry 545
as a rootstock	5393	seasonal variations, peach 508
citrus 3101, 7125	raising, Quick-pot pallets, Erica spp.	vegetables 8702
disease resistance, grapefruit 9092	2277	root
lemon, annual report, Australia 4782	seed, germination, temperature 8843	nitrogen nutrition, tea 8270
mandarin and tangerine 4788, 8062	temperature, seedling production 8843	soil salinity, pea 8722
orange 795, 5547	transport 2278	shoot
seed	Potassium	root temperature, chrysanthemum
treatment CA 1468	absorption	8863
growth substances, GA 1468	aluminium nutrition apple 5730	seasonal variations, apple 6554
Stratification 1468 Pongamia glabra, flavonoids 6245	tea 6458	varietal differences, apple 6554
Poppy	fruit, set, mandarin and tangerine	tuber, tomato grafted on potato
alkaloids 9044	3111	8795–8796
content 2367	growth substances	deficiency
nitrogen nutrition 7112	bean (Vicia) nutrition 4494	apple nutrition 4979
phosphorus nutrition 7112	tomato 6094	banana nutrition 6385
determination 5528, 9043	leaf	coffee 9166
metabolism 6307	light, tissue culture, bean (Vicia)	diagnosis, tea · 3277
production, annual report, Irish	nutrition 4494	grapefruit nutrition 798
Republic 8035	tissue culture, bean (<i>Phaseolus</i>)	grapevine 864
growing, for opium production, book	8697	leaf analysis, tea, annual report, Sri
2337	nitrogen nutrition apple, peach 466	Lanka 8262 magnesium, content, leaf, mandarin and
species, hybrids 6306 weed control 3062	tomato 6910	tangerine 3117
Poppy diseases, Pleospora papaveracea, heat	orange 6342–6343, 7135	manganese nutrition, banana, annual
treatment, annual report, Australia	peat pH, chrysanthemum 6145	report, Australia 5600
5385	phosphorus nutrition, beetroot 2745	symptoms
Poppy nutrition	application	coffee 3197-3198
nitrogen 7112	foliar	correction, growth substances, bean
alkaloids, content 7112	almond 8333	(Phaseolus) 2799
phosphorus 7112	tomato 3801	ginger 5492
alkaloids, content 7112	methods compared, cucumber and	mandarin and tangerine 7136
Poppy propagation, cuttings, root 4613	gherkin 5950	tomato 4567
Poppy varieties, alkaloids, content 2366	ascorbic acid, content, lemon 3113	tomato 4567
Populus spp.	calcium, content, Agrostis spp., 3893	determination
propagation	cell wall, composition, pea 8730	atomic absorption spectrophotometry
cuttings 3009	chlorophyll, content, leaf, apple 5723	8290 methods 8289
treatment, growth substances, IBA 3009	cold, resistance, lawns and sports turf 3895	disease development
Poria carnegiea, Carnegiea gigantea, diseases	content	Fusarium solani, bean (Vicia) 4489
6202	aluminium nutrition, bean (<i>Phaseolus</i>)	Phomopsis theae, tea 5662
P. hypolateritia, tea diseases, annual report,	5974	Rhizoctonia solani, bean (Vicia) 4489
Sri Lanka 8262	biennial bearing, apple 971	disease incidence
Portuguese East Africa	copper nutrition, coffee 393	Botrytis cinerea, tomato 5345
banana, growing 8125	flower, peach 6631	tomato 3801
coconut, growing 7186	fruit	essential oil
Portulaca grandiflora	development, plum 6663	composition, mint 6263
ground cover plants, growth retardants	disorders, pear 3493	content, mint 6263
6157	nitrogen nutrition	flower
pests, nematodes, Brazil 9126	plum 7473	colour, rose 2294
propagation, cuttings, treatment, growth substances 7886	strawberry 8513 peach 6631	cut, life, chrysanthemum nutrition 718 number
P. spp.	phosphorus nutrition, orange 3157	rose 7946
as weeds	tomato grafted on potato 8795–8796	rose nutrition 748
artichoke, globe 3633	iron nutrition, cherry 496	quality
herbs 6777	leaf	chrysanthemum nutrition 718
onion 5305	apple 6553	rose nutrition 748
vegetables 680, 6777	banana 5603	sex, melon (cantaloup and musk) 165
Pot plants	copper nutrition, orange 9087	size, celosia 6133
air pollution, sulphur dioxide, ethylene,	drought, sugar cane 2474, 8200	stem length, rose 7946
injury 6132	flooding, sugar cane 2474, 8200	flower bud, fruiting potential, grapevine
compost, amendments, plastic foam 8850	fruit, disorders, apple, annual report,	3578
economics 4608 Denmark 2156	Netherlands 4956	flowering, date, chrysanthemum nutrition
Netherlands 2156		718
fungicides, injury, benomyl 5393	orange 9087 pineapple 9200	fruit amino acids, content, capsicum 1269,
growing	manganese nutrition, orange 9087	6039
Denmark 2156	mulching, apple 938	capsaicin, content, capsicum 8752
Finland 8843	nitrogen nutrition	colour, tomato 3801
in greenhouses, transport, conveyor belt	orange 9087	composition
6965	plum 7473	ascorbic acid, melon(cantaloup and
Netherlands 2156	sources, peach 3470	musk) 165
peat 5202	tomato 6910	orange nutrition 1478
nutrition 5393	rootstocks, plum 2657	papaw 842
review 5389 under plastic, annual report, UK 3833	seasonal variations	plum 7473
sand beds, alga control 8847	apple 6554 peach 508, 6630	strawberry 7535 tomato 3801
growth substances	soil management, peach 1017	disorders, tomato 3820
pinching	soilless culture, grapevine 6749	flavour, tomato 6937
chlormequat 5393	varietal differences, apple 6554	metabolism, fruit trees and plants
review 6135	zinc nutrition, orange 9087	5705
responses, review 6135	nectar, pollination, bees, onion 2088	nitrogen, content, capsicum 8753
irrigation	nitrogen nutrition	proteins, content, capsicum 8753
automatic 2914, 4135	orange 1478	quality
capillary, fertilizer application 6495	tea 6457	melon (cantaloup and musk) 165
fertilizers, application 1687	plant	orange 805
Kölle system 8849	aluminium nutrition, tea 6458	set, melon(cantaloup and musk) 165

Subject Index		1087
Potassium contd.	Potassium contd.	Primula contd.
fruit contd.	translocation	pollination, polyploids 6156
size grapefruit nutrition 798	bean (Phaseolus) 2028	Primula diseases, mycoplasma, control, antibiotics 5410
orange nutrition 1478	enzyme activity, root, pumpkin 2778 marrow, annual report, UK 5943	Primula growth substances, retardants,
peach 508.	temperature, bean (Phaseolus) 2028	Pydanon 2163
tomato 3801	yield reduction, peach 8456	Primula nutrition, minor elements, annual
storage life, composition, apple 6557 interaction, growth substances, lettuce	Potato as a rootstock	report, Netherlands 6962
nutrition 8607	tomato	Primula seed, production, pollination 6156 Primula spp.
leaf	fruit, nutrients content 8795-8796	diseases
amino acids, content, capsicum 1269,	tuber, nutrients content 8795–8796 Potentilla spp.	green petal 4634 vectors, leafhoppers 4634
6039 colour, coleus 6133	genetics, sex determination 6242	disorders, chlorosis, annual report,
composition	propagation, cuttings 752	Netherlands 6127
grapefruit 2384	as weeds, grapevine 5840 Poterium polygamum, essential oil, content	seed, germination, temperature 2203 Prinsepia spp., propagation, seed, annual
lemon 2384 orange 2384	7983	report, Canada 2910
disorders, capsicum 8752	Pots	Privet
nitrogen, content, capsicum 8753	Jiffy-Belts, pot plants, endive 5390 paper 2494	chimeras, pigments, content 8963 pigments
proteins, content, capsicum 8753	pot plants, endive 5390	content
leaf analysis apple 3402, 8375	plastic	chimeras 8963
banana 9131	nursery stock 2493 pot plants, endive 5390	diseased plants, yellow mosaic 8963 pruning and training, chemical 7958
chrysanthemum 7856	made from plastic films, seedling raising,	replanting, soil, sterilization, annual
citrus 1484 coffee 1570	vegetables 2865	report, German Federal Republic 7844
mango 5631	types compared, pot plants, endive 5390 Potting	Privet diseases, yellow mosaic, host
orange nutrition 1478	mechanical	pigments, content 8963
peach 1018, 3471–3472	equipment 7292 labour requirements 7292	Privet growth substances
petiole analysis compared, grapevine 8551	Potting composts	injury, 1-propylphosphonic acid 7958 retardants
rubber 1616	amendments, Vriesia spp. 7931	3-carboxy-2-pyridones 3334
seasonal variations, annual report, India 1657	bark, trees and shrubs 2276 Hygromull, azalea 7942	ethyl hydrogen 1-propylphosphonate 7958
soil management methods compared,	pine leaf-mould, azalea 7942	MH 7958
apple 8358	types compared	1-propylphosphonic acid 7958
sugar cane 412 tea 1662	gloxinia 2946 nutrient availability, ornamental plants	Privet propagation, cuttings, media 3838 Proceedings
magnesium, content, Agrostis spp., 3893	6963	Annual Grower's Short Course, Lower
manganese, content, Agrostis spp., 3893	plant nutrition, gloxinia 8893	Mainland Horticultural Improvement
metabolism colloquium 8308	Vriesia spp. 8919 Prangos pabularia, coumarins 6310	Association, Canada 8500 colloquium
tissue culture, bean (<i>Phaseolus</i>) 7711	Pratylenchoides laticauda, hop pests, annual	International Potash Institute 8308
nematicide injury, reduction, peach 4258	report, German Federal Republic 7064	plant analysis and fertilizer problems
nitrogen, content, <i>Agrostis</i> spp., 3893 nitrogen imbalance	Pratylenchus brachyurus coffee pests 1581	6479 conference
coffee 9167	onion pests 3764	Conifers in the British Isles 7035
stem length, rose 2294	pineapple pests 9202	International Organization of Citrus
nitrogen nutrition pineapple 9199	rubber pests 9215 P. coffeae	Virologists 5557 International Shade Tree 6211
plum 7473	cardamoms pests 8153	Plant Growth Substances 7283
pest incidence, pea nutrition 1232	coffee pests 8153	congress, International Potash Institute 864
petiole analysis, leaf analysis compared, grapevine 8551	lemon pests 3133 P. loosi	International Colloquium of the
phosphorus absorption, beetroot 2745	tea pests 3317	Chemistry of Coffee 9172
phosphorus nutrition mandarin and tangerine 9083	annual report, Sri Lanka 8262 P. penetrans	Refresher Course for Nurserymen, Pershore 4612
pineapple 9199	apple pests 6570	scientific colloquium, Internation Council
photosynthesis, cucumber and gherkin	begonia pests, annual report, Belgium	for the Study of Viruses and Virus
5958 physiological responses, colloquium 8308	8835 control, lily pests 7902	Diseases of the grapevine 5853 symposium
placement, methods compared, root	disease relationship, tomato pests 243	cherries 4232
growth, apple 8377	hop pests, annual report, German Federal	french beans 8671
plant, composition, pea 5243 plant analysis	Republic 7064 nematicides, application, methods	Horticultural problems of the Northern Caucasus 5700–5701
banana 9131	compared, rose pests 7948	International Verticillium 3325
mandarin and tangerine 7136	pea pests 1231	isotopes and radiation in soil-plant
sugar cane 6437 proteins, biosynthesis, pea 6005	root rot relationship 211 population studies	relationships 6484 leaf analysis 2489
requirements	cover crops, peach pests 7452	macadamia and pecan 7164
light intensity, tomato 6908	herbicides, peach pests 7452	mango and mango culture 3210 pecan specialists 5794
vegetables 4381 residues from straw burning, iris nutrition	population suppression, by compositae 283	physiological aspects of crop yield 4
2243	resistance, ornamental plants, pests 4615	physiological processes in controlled
root analysis, peach 3471 seed, treatment, lettuce 137	rootstock resistance, rose pests 1393 P. spp.	environments 3296 phytotoxins 4928
sodium, content, Agrostis spp., 3893	bean (<i>Phaseolus</i>) pests 645	plastics in horticulture 2738
sodium nutrition, tea, annual report, Sri	bulbs, pests 3864	selection of plant propagating material
Lanka 8262 soil analysis	heat treatment, banana pests 5605 rhizome dips, banana pests 5605	2916 strawberry growing under protected
rubber 1616	sugar cane pests 7246	cultivation 6698
soil management methods compared,	P. vulnus	vegetable growing in COMECON
apple 8358 soil pH, cacao 7180	rose pests 1392 annual report, Netherlands 6127	Prodecatoma cooki, grapevine pests 3588
sources	soil fumigation, peach pests 1021, 3475	Proforcipomyia spp., pollinator, cacao 5612
chloride, leaf chlorine content, coffee	Prays citri, biological control, citrus pests,	Promecotheca cumingi
3199 compared, Agrostis spp., 3893	annual report, Cyprus 3980 Primula	parasites Achrysocaris promecothecae, coconut
frost resistance, apple 4974	annual report, Austria 265	pests 8143
grapefruit nutrition 798 sulphur-coated, watermelon 3683	breeding and selection 6156 genetics, polyploids 6156	Dimmockia javanica, coconut pests 8143
Sulphur-Coalca, watermeion 5005	Parago, borbhroren ara	0

Promecotheca contd.	Proteins contd.	Pruning and training contd.
P. papuana	content contd.	disease incidence contd. Pseudomonas solanacearum, tomato
biological control, coconut pests 9158 coconut pests 2444	plant development, carrot 2894	4568
Pronematus spp., predator on,	report, German Federal Republic	drought damaged plants, citrus 3988
Eutetranychus orientalis, citrus	8284	economics
1488–1489	plant nutrition, cabbage 143	apple 3398
Propagation, materials, selection, symposium	potassium nutrition, bean (<i>Phaseolus</i>)	grapevine 8546
2916 Prosopis alba, alkaloids, extraction from	3701 review 4941	espalier, apple 5719 fan, shoots per plant, grapevine 8544
leaves 777	root	flower bud
Protea spp.	apple 1727	initiation
growth substances, endogenous, seed 750	storage quality, celeriac 2902	peach 3482
propagation, embryo, tissue culture, growth substances, treatment 6243	seed bean (<i>Phaseolus</i>) 197	tea 3268 flowering
seed, growth substances, content 750	mutants, pea 8732	date, grapevine 572
tissue culture, embryo, growth substances,	varietal differences, bean (Phaseolus)	rose 7945
treatment 6243	1205	frost damaged plants grapevine 1098
water relations 8967 Proteins	seed germination, radish 8641 seed treatment, bean (<i>Phaseolus</i>) 5242	frost damaged plants, grapevine 1098 fruit
antagonism growth substances, pea 6016	seedling, growth substances, lettuce	bunch
bean (Phaseolus) 4484	6789	size, grapevine 5120
bean (Vicia) 4484 bean (Vicia) 4493	sulphur dioxide, pea 6015 varietal differences	weight, grapevine 568, 572 colour, apple 3396
biosynthesis	lemon 3131	composition, apple 2564
almond 5773	onion 231	distribution, mandarin and tangerine
coloured light, bean (Vicia) 8712	vitamin treatment, pea 6014	8067
enzyme activity bean (<i>Phaseolus</i>) 196, 4479	water deficiency, apple 4962 water relations, vegetables 3628	number, apple 4968 quality, apple 3396
pumpkin 161	determination	ripening, grapevine 572
fruit 5690	bean (Phaseolus) 4486	set, apple 4197
abscission, ethylene 448	chloroplast, antirrhinum 5411	size
grapevine 7587 growth substances	electrophoresis, vegetables 4384 - fruit, banana 8129	apple 2564, 4968 tomato 7780
ethephon, fig 1008	grapevine 4360	sugar content, grapevine 572
lettuce 137	paper chromatography, tomato 8807	"fruit-branch concentration" method,
herbicides, bean (<i>Phaseolus</i>) 6855	distribution, phloem cells, squash 7688	peach 5035–5036
inhibition, growth substances, chloramphenicol, grapevine 1927	extraction, seed, almond 3368 flower bud, initiation, mustard 3010	fruit trees and plants, book 2527 goblet
leaf, grapevine 7587	metabolism	labour requirements, peach 6627
nitrogen nutrition, tomato 249	bean (Phaseolus) 3722	peach 4255, 6627
pea 7740 peach 5773	colchicine treatment, carrot 4591 fruit	growth-fruit relationships, apple 941–94 Guyot
photoperiodism, coloured light, Salvia	maturation, citron 8094	grapevine 6742
sclarea 7085	ripening 7306	sugars, content, grapevine 8550
seed development	growth substances cucumber and gherkin 151	hail damaged plants, olive 4823 hedgerows, apple 4196
bean (Vicia) 2046	kale 151	high density planting, apple 3401
mustard 4736	leaf, senescence, apple 7400	historical survey, fruit trees and plants
temperature, apple 50	seed germination, bean (<i>Phaseolus</i>) 5239	4161
bud, growth substances, orange 8089	trace elements, spinach 2747	labour requirements, grapevine 8546 leaf
chloroplast, zinc, tomato 4564	structure, seed, squash 8642	distribution, mandarin and tangerine
cold resistance, Albizzia spp. 1398	Protohydnum geltinosum, edible fungi 2906	8067
compost type, mushroom 700 cotyledons, herbicides, bean (<i>Phaseolus</i>)	Protomyces macrosporus coriander diseases 2319	nutrients, content, grapevine 2727 leaf bud, development, tea 3268
2012	resistance, coriander diseases 2319	light intensity
disease resistance, Erysiphe communis,	Pruning and training	apple 7360
pea 7730 diseased plants, melon (cantaloup and	biennial apple 3397	grapevine 5834 mechanical
musk) 7685	annual report, UK 3372	annual report, Australia 1466
frost, resistance, grapevine 1927	biennial bearing	apple 4230
fruit	apple 4223	apricot 4230
berry fruits 101 grapevine 7595	mandarin and tangerine 1477 bud, break, grapevine 568	blueberry 8493 equipment
Guilielma gasipaes 7272	cell sap concentration, grapevine 5110	apple 4230, 5703
phosphorus nutrition, capsicum	chemical	apricot 4230
8753	apple, annual report, Canada 2515 azalea 7045	pear 4230, 5703 plum 5703
potassium nutrition, capsicum 8753 seasonal variations, persimmon 2432	blueberry 8493	tea 3285
growth substances, chlormequat, bean	disease control, Podosphaera	grapevine 3573, 6739
(Phaseolus) 5258	leucotricha, apple 2576	annual report, USA 3516, 7490
herbicides bean (<i>Phaseolus</i>) 2012, 4485, 5995	equipment, azalea 2286 grapevine 1125	hedge clipper, azalea 2286 lemon 5554
pea 206, 4485	growth substances	pear 4230
spinach 4485	aminozide, apple 1778, 3396, 5719	slotting saw, apple 3396, 4196
iron, tissue culture, carrot 1307 irrigation, bean (<i>Phaseolus</i>) 5258	annual report, UK 8317	mechanical harvesting black currant 2676
leaf	apple 6576 azalea 7044	grapevine 4346, 5143
fruiting, olive 8112	NAA, apple 2588	olive 2425
growth substances, orange 8089	Off-Shoot-O, azalea 2286	plum 1848
herbicides, pea 2070 phosphorus nutrition, capsicum	poinsettia 6218 TIBA, apple 2588	mechanical tying, materials, raspberry, annual report, Irish Republic 1857
8753	pinching	methods compared
potassium nutrition, capsicum 8753	azalea 7043	apple 3398, 6546–6547, 7360,
seasonal variations, olive 8112 soilless culture, grapevine 6749	poinsettia 6218	7362-7363, 8364, 8366, 8379
molybdenum nutrition, pea 209	privet 7958 climate, microclimate, grapevine 1096	annual report, Irish Republic 1720 cucumber and gherkin 3681
nitrogen nutrition, bean (Phaseolus)	container-grown, trees and shrubs 2275	disease incidence, peach 8455
3701, 5242	disease control, Pseudomonas savastanoi,	economics, apple 7366
ozone injury, bean (<i>Phaseolus</i>) 2015 phosphorus nutrition, bean (<i>Phaseolus</i>)	olive 4823 disease incidence	flowering, apple 8363
3701	Phomonsis theae, tea 5662	fruiting apple 4967 7361 7365-7366 8363

oubject index		1089
runing and training contd.	Prunus contd.	Prunus spp. contd.
methods compared contd. fruiting contd.	P. avium cyanide, biosynthesis 2626	soil contd. temperature contd.
pear 6641	glycosides 2626	root growth 3925
grapevine 1104, 2717-2718, 4347,	as a rootstock	sulphur dioxide
6741, 6765, 7563, 8545, 8547–8548 annual report, Czechoslovakia 6713	cherry annual report, Netherlands 2516	injury
growth correlations, apple 4967	virus incidence 999	annual report, Netherlands 5698 plant resistance 7845
lemon 3109	P. besseyi	tissue culture
light absorption, apple 4963 peach 4254–4255, 5037, 6626, 8379	tissue culture, callus, cyanide toxicity 4260	shoot growth substances, concentration,
pear 3489	varieties, register, USA 4156	root development 4240
protected cultivation, lemon 3110	P. cerasides, as rootstocks, stone fruits 8321	phenols, metabolism, root
shoot growth, apple 8363 tea 3270, 8267	P. cerasus, var. pissardii, diseases,	development 4240 root development 4240
tomato 6906	Phyllosticta prunicola 6657	virus-tested plants, EMLA scheme 7320
work studies, apple 8365	P. cornuta, as rootstocks, stone fruits 8321 P. fruticosa, as a rootstock, cherry 5018	water relations, frost resistance 7061 P. tenella, annual report, Canada 2910
nurseries, methods compared, apple 7363, 8348	P. insititia, as a rootstock for, peach 3468	P. tomentosa, tissue culture, callus, cyanide
palmette	P. laurocerasus carbohydrates, biosynthesis, temperatures,	toxicity 4260 P. triloba
apple 2565-2566	low 7060	flower, cut, fluorine injury, tap water
carbohydrates, metabolism, apple 3399 fruit trees and plants 5704	growing, in containers, media 4689	2913
labour requirements, peach 6627	organic acids, content, seasonal variations 3926	forcing, annual report, Netherlands 6127 Pseudaulacaspis pentagona , peach pests,
peach 2566, 4255, 6627, 8455	P. mahaleb	annual report, USA 451
plum 1849 pear, annual report, Australia 450	growth substances, responses, chlormequat 8329	Pseudococcus citri, biological control, citrus pests, annual report, Cyprus 3980
persimmon 2431	propagation, cuttings, treatment, growth	P. comstocki
photosynthesis, apple 4185	substances, IBA 6616 as a rootstock, cherry, virus incidence	forecasting, apple pests 1757
pinching capsicum 3774	999	population survey sex traps
ornamental plants, annual report, UK	weed control, nurseries 7316	citrus pests 5565
4606 post-prune growth	P. mume enzymes, leaf, taxonomy 7419	mulberry pests 5565 P. maritimus
apple 4966	taxonomy, enzymes 7419	apple pests 1767
starch content, tea 3283 prostrate forms, root growth, apple 8372	P. napaulensis, as rootstocks, stone fruits 8321	grapevine pests 5862 Pseudodoniella typica, cacao pests 2444
regeneration	P. persica	Pseudomonas agarici, mushroom diseases
apple 4192–4193	as rootstocks, stone fruits 8321	2904
olive 4823 orange 5553	seedlings, as rootstocks, cherry, virus incidence 999	P. cepacia histology, onion diseases 5311
review, cherry 7428	P. persica var. aposarca, as a rootstock,	infection process, onion diseases 5310
rootstock relationships, apple 8364 shoot bending	peach 4243 P. sibirica, as a rootstock, apricot 2611	onion diseases 6883 P. ciccaronei, carob diseases 3984
apple 7362	P. spp.	P. cichorii
carbohydrates, metabolism, apple 3414 growth substances, endogenous, apple	breeding, rootstocks, cherry 64 diseases	celery diseases, annual report, USA 4367 frost, injury, cabbage diseases 146
8367 -	plum pox 4949	P. cumini, cumin diseases 1406
phloridzin content, apple 4998	stem pitting virus 511 detection 1825	P. eriobotryae, loquat diseases 5587 P. fluorescens
shoot direction, grapevine 4353 shoot incision, rose 3923	Tranzschelia spp., report, Australia	antagonistic to, Pseudomonas tolaasii,
shoot length	3344	mushroom 3828
grapevine 8549 varietal behaviour, grapevine 6740	Xanthomonas pruni 915 enzyme activity, frost resistance 7477	antagonostic to, <i>Pseudomonas tolaasii</i> , mushroom 2905
slender spindle	flower, bud initiation 4290	bean (Phaseolus) diseases 5247
apple 4195, 5719 fruit trees and plants 5704	fluorine, toxicity, plant tolerance 7845 frost	beetroot diseases 7614 pea diseases 651
stem height, sugars, content, grapevine	injury, flower bud, development 4290	tomato diseases 5247
8550 time of	resistance enzyme activity 7477	P. lachrymans aerial spraying, cucumber and gherkin
apple 7364	respiration 7477	diseases 1195
grapevine 6765	water relations 7061	watermelon diseases 5219
pear 6640 tea 8266	herbicides, injury, atrazine 1041 hybrids	<i>P. maculicola</i> , frost, injury, cabbage diseases 146
temperature, apple 8368	drought resistance 4287	P. marginalis frost, injury, cabbage diseases 146
tipping, grapevine 5116 translocation disruption, fruit trees and	heat resistance 4287 as a rootstock	lettuce diseases 5916
plants 910	cherry 4234	P. mors-prunorum
transpiration, apple 5741 tree orientation	peach 76 triple, as a rootstock, peach 1014	cherry diseases, annual report, German federal Republic 6504
flowering, apple 3417	leaf	phytoalexins, production, bean (Phaseolus)
growth reduction, apple 3417 trellis, tomato 6906	anthocyanins 744 composition, enzyme 32	diseases 7705 population studies, peach diseases 5040
trellis systems, grapevine 6743	phenolic compounds 744	Pseudomonas phaseolicola
trellising	ornamental, propagation 26	bean (<i>Phaseolus</i>) diseases 178, 5246
growth correlations pear 6639	propagation 26 cuttings	report, USA 1940 phytoalexins, production, bean (<i>Phaseolus</i>)
persimmon 6639	growth substances, IBA 3509	diseases 7705
tropical crops, annual report, Nigeria 4035	root 5797 rooting capacity 905	races, bean (<i>Phaseolus</i>) diseases 8686 resistance, bean (<i>Phaseolus</i>) diseases
two-armed cordon, grapevine 6742	wounding 3509	2022
varietal behaviour	respiration, frost resistance 7477 root, growth, development, soil,	seed germination, bean (<i>Phaseolus</i>) diseases 8677
apple 8360, 8364 grapevine 8547	temperature 3925	toxins, bean (Phaseolus) diseases
water relations, apple 5741	as a rootstock	176–177
wirework construction, hop 5508 wound dressings, fruit trees and plants	apricot 991 cherry 495, 4234	varietal resistance, bean (<i>Phaseolus</i>) diseases 168
8327	damson 1040	P. pisi
wound healing, cherry 8433 Prunus armeniaca	plum 1040 soil	frost, injury, pea diseases 4503 incidence, pea diseases 4503
as a rootstock, apricot 2611	temperature	pea diseases 650-651
as rootstocks, stone fruits 8321	root development 3925	varietal resistance, pea diseases 721

Pseudomonas contd.	Psila rosae	Pumpkin contd.
P. solanacearum	carrot pests 5374	tissue culture
incidence, tomato diseases 4568	annual report	cotyledons 5229
resistance, cabbage diseases 2760	Irish Republic 1939	growth substances 2780
rootstock resistance, eggplant diseases	Netherlands 6772	hypocotyl 5229
4545	New Zealand 5152	root, electrical activity 5224
seed germination, bean (Phaseolus)	UK 1934, 3614, 5154	shoot, electrical activity 5224
diseases 8677	celery pests, annual report, German	Pumpkin diseases
varietal resistance	Federal Republic 8579	bean yellow mosaic, varietal resistance
bean (Phaseolus) diseases 1205	control, carrot pests 6942	7684
eggplant diseases 1271, 5329, 8759	Psophocarpus palustris, as a cover crop, oil	Choanephora cucurbitarum 4455
tomato diseases 7770	palm 7209	Erwinia tracheiphila, varietal resistance
P. spp.	Psoralea corylifolia, flavones 9047	5218
antagonistic to	Psychotria spp., alkaloids 7097	melon mosaic virus 159
Colletotrichum lagenarium, melon	Psylla piri, pear pests 5738	Sphaerotheca fuliginea, seed treatment 6861
(cantaloup and musk) 5952	P. pyri, control, pear pests, annual report, USA 8319	Pumpkin growth substances
Fusarium roseum, carnation 2922	P. pyricola	cell
Pseudomonas tolaasii, mushroom 3828	host-pest relationships, pear pests 1838	metabolism
antagonostic to, Pseudomonas tolaasii,	pear pests 8467	BAP 2780
mushroom 2905	P. spp.	GA 2780
cherry diseases, annual report, UK 8318	biological control, pear pests 5051	IAA 2780
control, cherry diseases, annual report,	control, pear pests 5052	chloroplast
USA 8319	pear pests 1744	development
inoculation, seedling growth, cucumber	Ptelea spp.	BAP 2780
and gherkin 5212	alkaloids 9048	GA 2780
mango diseases 8162	content 773	IAA 2780
pea diseases 651	coumarins, content 773	Pumpkin nutrition
peach diseases 5770	Pterochloroides persicae, almond pests 459	nitrogen, phosphorus deficiency 161
plum diseases, annual report, UK 8318	Pteronidea ribesii, gooseberry pests 2680	phosphorus, deficiency 161
resistance, breeding and selection, cherry	Pterostichus melanarius 2703	Pumpkin plant, composition, arginine 161
diseases, annual report, UK 3346	Puccinia allii, leek diseases 661	Pumpkin root, composition 2071
rootstock resistance, cherry diseases 5018	Puccinia caricina, gooseberry diseases,	Pumpkin seed
soil, micro-organisms, replanting,	annual report, Netherlands 5073, 6670	germination, enzymes, content 7693
grapevine 1105	P. chrysanthemi, varietal resistance,	sowing, dates, India 6810
symptoms, geranium diseases 8869	chrysanthemum diseases 5405	storage 1185
tomato diseases, annual report, Canada	Puccinia horiana, chrysanthemum diseases	treatment, fungicides, benomyl 6861
3603	3319, 4628	Pumpkin varieties 4371
watermelon diseases 2769	P. menthae, mint diseases 6261	annual report, India 3607
P. syringae	P. pelargonii	disease resistance
Allium spp., diseases 2083	geranium diseases	bean yellow mosaic 7684
apple diseases 3407	annual report	Erwinia tracheiphila 5218 Punica spp. propagation outlings 2168
apricot diseases 7423	Austria 265 Netherlands 6127	Punica spp., propagation, cuttings 2168 Puya spp., trichome, anatomy, morphology
annual report, German Federal Republic 8315	P. pelargonii-zonalis	6199
flower infection, pear diseases 4276	control, geranium diseases 7848	Pycnarrhena ozantha
onion diseases 2083	fungal parasites, geranium diseases 6982	alkaloids 6311
onion, welsh, diseases 2083	geranium diseases 2929	medicinal properties 6311
pea diseases 651	heat treatment, geranium diseases 8868	Pyracantha
peach diseases 2083	P. stenotaphri, Stenotaphrum secundatum,	cold, resistance, photoperiodism 5485
population studies, pear diseases 4277	diseases 6197	frost, resistance, varieties, France 2158
resistance, cabbage diseases 2760	Pueraria javanica	light
shallot diseases 2083	as a cover crop	far-red, cold resistance 5485
Pseudomonas tolaasii	coconut 9147, 9156	red, cold resistance 5485
biological control, bacteria, mushroom	manila hemp, pest incidence 2437	photoperiodism, cold resistance 5485
diseases 2905, 3828	P. phaseoloides, as a cover crop, oil palm	winter hardiness, nitrogen nutrition 2311
mushroom diseases 4600	7209	Pyracantha diseases
annual report, Australia 5882	P. spp.	Fusarium oxysporum
P. viridiflava, pea diseases 651	as a cover crop, citrus 5551	control 7963
Pseudonicraza szentia, biological control,	ground cover plants, coffee 7190	pathogenicity tests 7963
coconut pests 9158	Pullularia spp., vectors, aphids, bean (Vicia)	Pyracantha nutrition
Pseudoperonospora cubensis	diseases 8708	nitrogen 2311
cucumber and gherkin diseases 2000,	Pummelo	winter hardiness 2311
5206	breeding and selection, frost resistance	potassium 2311
annual report, USA 4368	3106	Pyracantha propagation, cuttings, media
squash diseases, annual report, USA 8585	as a pollinator, orange 8090	708 Pyracantha spp
varietal resistance, cucumber and gherkin	polyembryony 9079 Pummelo fruit	Pyracantha spp. diseases
diseases 5945	aroma 7171	Erwinia amylovora, varietal resistance
watermelon, annual report, USA 4368	flavonoids 8102	2310
Pseudoperonospora humuli	Pummelo propagation, under mist 5677	Fusicladium pyracanthae, varietal
forecasting, hop diseases 345, 6277	Pumpkin	resistance 2310
hop diseases 1419, 3045, 4748	amino acids, metabolism 161	varieties
annual report, German Federal	breeding and selection, annual report,	disease resistance 2310
Republic 7064	Zambia 8587	Mohave 2310
host-parasite relationships, hop diseases,	chloroplast, development, growth	Pyracantha varieties, frost resistance 2158
annual report, UK 3954	substances 2780	Pyrenochaeta lycopersici
incidence, hop diseases 6277	electrical potential, measurement 3687	control, tomato diseases 8779
infection process, stomatal opening, hop	enzyme activity	nutrient absorption, tomato diseases
diseases 5510	inhibition, strophanthin 2778	7798
resistance, breeding and selection, hop	proteins, biosynthesis 161	varietal resistance, tomato diseases 2109
diseases, annual report, UK 3954	enzymes	P. terrestris, varietal resistance, onion
Pseudopeziza ribis	root 7692	diseases 1253
black currant diseases 5731	seed, germination 7693	Pyrethrum
annual report, UK 1856, 3515, 7489 small fruits, diseases, annual report, Irish	flowering, seed sowing date 6810	flavonoids, content 2331
Republic 1857	light, intensity, measurement 1675	glycosides, content 2331
P. tracheiphila, grapevine diseases 5131	phosphorus, metabolism 2071	pyrethrins, determination 3049
Pseudoplusia includens, celery pests, annual	potassium, translocation, enzyme activity, root 2778	terpenes 7966
report, USA 4367	proteins, biosynthesis, enzyme activity	Pyrethrum propagation, capitulum, tissue
Psidium spp.	161	culture 9012
growing, tropical America 377	sodium, translocation, enzyme activity,	Pyrilla spp.
as a rootstock, guava 5626	root 2778	aerial spraying, sugar cane pests 4893

Subject Index		. 109
Pyrilla spp. contd.	Quince contd.	Radish contd.
sugar cane pests 2473	planting	photosynthesis contd.
Pyrus floribunda, as weeds, blueberry 8492	high density, Switzerland 904	oxygen concentration 7709
P. melanocarpa, as weeds, blueberry 8492 P. piraster	survey, Switzerland 904 pollen, amino acids, content 5744	red light 7806
fruit, morphology 4270	as a rootstock, pear 1032, 3490, 5782	respiration, leaf 7709 pigments, metabolism, light 2766
seed	wild, world distribution 1854	pollen
germination 4270	Quince diseases	germination 7671
ripening 4270	Entomosporium maculatum 8478	morphology 7670
P. spp.	Erwinia amylovora, alternative hosts	physiology 7670
catechins, content, shoot, leaf, seasonal variations 6646	6519 Monilia linhartiana 4292	pollination, compatibility 7671 proteins, content, seed germination 864
classification 5781	Sclerotinia cydoniae 5800	respiration
flavonoids, content, shoot, leaf, seasonal	control 8479	leaf
variations 6646	S. fructicola 5800	oxygen concentration 7709
hybrids, phenolic compounds, content,	S. fructigena 5800	photosynthesis 7709
leaf 1839 phenolic compounds, content, shoot, leaf,	S. laxa 5800 S. mespili 5800	steckling planting
seasonal variations 6646	virus, review 4291	spacing 3671
as a rootstock, pear 1032	Quince flower, pistil, amino acids, content	time 3671
Pythium aphanidermatum	5744	storage, temperature, shoot, growth 594
bean (<i>Phaseolus</i>) diseases 4475	Quince pests	sugars, translocation 8639
citrus diseases 2392 disease complex, grapevine diseases 6756	Cydia molesta 2662 mites, biological control 29	tissue culture cotyledons 1181, 6804
lawns and sports turf, diseases, annual	Quince varieties	sucrose treatment 153
report, USA 6129	comparative studies, Rumania 7482	root
magnesium nutrition, stock diseases	comparative trials, USSR 7483	cell, division, growth substances
2205, 5412	disease resistance, Entomosporium	3673
tomato diseases 4574 P. arrhenomanes, soil micro-organism	maculatum 8478 Triumph 6664	growth substances, treatment 2073 5940
antagonism, sugar cane diseases 415	Turkey 1854, 6665	senescence 5940
P. butleri, post-harvest dips, bean	Quinine	topping, methods compared 5942
(Phaseolus) diseases 8706	alkaloids, content, pruning 4762	translocation, studies 8639
P. debaryanum, Panax ginseng, diseases	pruning and training, alkaloids, content	transpiration, antitranspirants 3333
3052	4762 Rabbita damaga appuals pasts 4616	weed control, review 5939
P. irregulare, disease complex, grapevine diseases 6756	Rabbits, damage, annuals, pests 4616 Radioactive substances	Radish diseases cabbage yellows, incidence 614
Pythium myriotylum	absorption, reduction, clinoptilolite, bean	Streptomyces scabies 3672
magnesium nutrition	(Phaseolus) 2789	virus, vectors 1180
marigold diseases 2205, 5412	soil-plant relationship studies, symposium	Radish growth substances
tomato diseases 2205, 5412	6484	amino acids, metabolism, N-n-butyl-N'-
P. polymorphon, pineapple diseases 3249 P. splendens, control, Scindapsus spp. 6204	Radioactivity natural	aryl thiourea 6803 bolting, MH 5941
P. spp.	black currant 1843	cell
bean (Vicia) diseases, annual report, UK	pear 1843	development
5153	Radish	auxins 3673
bulb treatment, tulip diseases 2259	amino acids, metabolism, growth	BA 3673
celery diseases 2144	substances 6803 annual report	chlorophyll, content, ethephon 7668 injury, annual report, German Federal
cacti, diseases 8921	Austria 114	Republic 7598
cauliflower and broccoli diseases 6920	German Federal Republic 7597, 8579	leaf
lily diseases 7902	Netherlands 8581	senescence, urea cytokinins 8640
pea diseases 6920	UK 6774, 8583	size, ethephon 7668
tomato diseases 6920 cucumber and gherkin diseases 621	USA 4368, 8585 bolting, growth substances 5941	responses, MH 5941
annual report, German Federal	breeding and selection 4587, 7666	size, ethephon 7668
Republic 7598	chlorophyll, content, growth substances	storage
eggplant diseases 1274	7668	shoot growth
host enzyme activity	chloroplast	aminozide 5942
cauliflower and broccoli diseases 8791	development, herbicides 5202 structure, herbicides 5202	MH 5942 sucrose, content, ethephon 7668
pea diseases 8791 tomato diseases 8791	enzymes, leaf 5895	Radish leaf
parsley diseases 3014	growing	composition 3675
planting, mechanical, pot plants 5393	growth chambers 5201, 6802	senescence, growth substances 8640
seed treatment, coffee diseases 3193	media, compared 7605	size, growth substances 7668
soil moisture, oil palm diseases, annual	peat 7605 under glass 1139	sucrose, content, growth substances 766 Radish nutrition
report, Nigeria 9181 strawberry diseases 108	herbicides	cadmium
P. ultimum	chloroplast	absorption 4437
bean (Phaseolus) diseases, annual report,	development, haloxydine 5202	calcium nutrition 4437
German Federal Republic 8579	structure, haloxydine 5202	calcium, cadmium absorption 4437
cauliflower and broccoli diseases 1171	insecticides injury, carbamates 2742	molybdenum, soil, micro-organisms 618 nitrogen 1950
disease complex, grapevine diseases 6756 poinsettia diseases 2283	persistence 619	ammoniacal concentration 1968
seed treatment, pea diseases 7731	soil, Disyston 1180	nitrate accumulation, photoperiodism
P. vexans, control, carnation diseases 7851	residues 1173, 3328	1144
Quadraspidiotus perniciosus	root	NPK, seed, production 616
apple pests, annual report, German	dimethoate 4438 trichloronate 4438	Radish pests
Federal Republic 6506	irrigation	Athalia proxima 619 Ditylenchus dipsaci 3878
control cherry pests 7322	drip, water composition 8638	Hylemya brassicae 1173
plum pests 7476	flood, water composition 8638	H. spp., seed treatment 4438
fruit trees and plants, pests 1759, 7322	sprinkler 116	Lipaphis erysimi 1180
tree fruits, pests, annual report, Rhodesia	sub-surface, water composition 8638	Myzus persicae 1180
Quillaia canonaria cononina 9049	light for red photosynthesis 7806	Radish root
Quillaja saponaria, saponins 9049 Quince	far red, photosynthesis 7806 red, photosynthesis 7806	absorption 230 cell, division, growth substances, tissue
breeding and selection 6664–6665	medicinal properties 5168	culture 3673
chlorogenic acid	ozone, injury, varietal resistance 5178	composition, growth substances 5941
content	photoperiodism 2881	histology 230
fruit, seasonal variations 7484	nitrate accumulation 1144	size, growth substances 7668
leaf, seasonal variations 7484	photosynthesis	sucrose, content, growth substances 76
historical survey 1854	far red light 7806	thiocyanates 3674

Radish seed	Ranunculus spp. contd.	Raspberry fruit
germination	as weeds, grapevine 5839–5840 Raphanus sativus, types, classification 5199	ascorbic acid, content, plant nutrition 6682
inhibition, N-phenacetyl amino acids 8637	R. spp., classification 4435	colour 7510
proteins 8641	Raspberry	composition 101
production 616	annual report	plant nutrition 6682
steckling	Belgium 4297	' vitamins, freeze dried 112
planting	Canada 2669	development, partially male-sterile clones
spacing 3671	Irish Republic 1857	loosening, growth substances, ethephon
time 3671 sowing, spacing, seed production 616	UK 1855, 3514, 5076, 7489 USA 5077	5801
treatment, insecticides 4438	breeding and selection 5084	pigments 1865
Radish soil	annual report	content 7510
micro-organisms	Canada 7488	quality harvesting time 5811
identification 617 population studies 618	Sweden 5075	wax coatings, calcium nutrition 5811
pH 1968	USA 1440, 5078	ripening, pigments 7510
temperature, disease incidence 614	male sterility 1054–1055 Netherlands 5085	set, pollination 5088
Radish varieties 4435	survey, wild populations, Canada 4314	Size 5811
Biser 7667 comparative trials	chlorophyll, content, seedling, seed	harvesting time 5811 planting, spacing 6681
Czechoslovakia 6801	treatment 5807	wax coatings, calcium nutrition 5811
USSR 4436	dormancy, breaking, temperature 907	sugars, content, plant nutrition 6682
early harvesting 7667	economics EEC 3343	Raspberry growth substances flower bud
edible leaves 7667 greenhouse 5200	UK 3343	initiation
growth chambers, commercial crop	growing	aminozide 1058
production 6802	German Federal Republic 7506	ethephon 1058
ozone, injury, resistance 5178	Italy, book 5805	fruit, loosening, ethephon 5801
report, Sri Lanka 2733 Sweden 115	symposium, Canada 8500	Raspherry leaf composition, seasonal variations 5809
world collection 6801	harvesting	nutrients, content 5809
Radopholus similis	mechanical 1046 shakers 6684	Raspberry nutrition
alternative hosts	time of 5811	calcium, fruit, quality 5811
banana pests 7608	herbicides	nitrogen 1057 fruit, flavour 6682
coffee pests 7608 eggplant pests 7608	injury, dichlobenil 2685	NPK 6682
sugar cane pests 7608	residues	Raspberry pests
tomato pests 7608	soil	Aceria gracilis, annual report, UK 3552
banana pests 827	chlorthiamid 6542 dichlobenil 6542	Amphorophora agathonica, varietal
annual report, Western Samoa 8122 Calathea makoyana, pests, annual report,	irrigation, trickle 1046	resistance 1863 Aphis idaei 5079
Belgium 8835	labour requirements 7491	A. rubi 5079
citrus pests 2394	mulching, plastic 3524	Tetranychus telarius, damage, cold injury
control, banana pests 9133	photosynthesis, seedling, seed treatment	2684 Thomasiniana thashaldi
okra pests 2394 pest-growth correlation equation, banana	5807 planting, spacing 6681, 7508	Thomasiniana theobaldi integrated control 2688
pests 826	pollen, viability 5088	parasites, Tetrastichus spp. 2688
pineapple pests 2394	pollination, cross- and self- compared,	Xiphinema americanum 5810
rootstock resistance, citrus pests, annual	fruit set 5088	X. bakeri 532
report, USA 2375 soil treatment, banana pests 6387	production and trade EEC 3343	Raspberry propagation mulching, plastic 3524
tomato pests 2394	UK 3343	shoot-tip culture, virus-free plants 1864
R. spp.	pruning and training	Raspberry seed
heat treatment, banana pests 5605	Gjerde method 4316	composition 101
rhizome dips, banana pests 5605 Rainfall	mechanical harvesting, annual report, New Zealand 5074	formation, pollination 5088 treatment, potassium iodide 5807
disease incidence	topping height 4316	Raspberry soil, fumigation, <i>Phytophthora</i>
Alternaria spp., vegetables 5166	research, review 2670	spp. 5087
bean (Phaseolus) 2011	storage, wax coatings 5811	Raspberry varieties
Botrytis cinerea, strawberry 7539	temperature, dormancy, breaking 907 transport 5089	annual report, Netherlands 6670 cane production 7508
narcissus, annual report, UK 2153 fruit	water relations, flower bud, initiation	Cherokee 7507
acidity, grapefruit 4815	1058	comparative trials
maturity, grapefruit 4815	weed control 2685, 6542, 8489	Denmark 3523
set cacao 1549	annual report, Canada 6668	Hungary 5086 Dormanred 5806
time from flowering, grapevine 587	wind, protection 5808 winter hardiness 2684	Glen Clova 1056
leaf, quality, tea 8279	pest damaged plants 2684	Korea 1059
pest incidence, bean (Phaseolus) 2011	Raspberry diseases	Malling Admiral 1056
plant nutrition, bean (<i>Phaseolus</i>) 5975	arabis mosaic virus 531	Malling Exploit 5086
protection paper, date, annual report, Tunisia	Botrytis cinerea 7509 calico 530	Malling Orion 1056 mechanical harvesting 6684
3981	Didymella applanata 2687, 7509	pest resistance, Amphorophora agathonic
plastic	Leptosphaeria coniothyrium 2687	1863
date, annual report, Tunisia 3981	mosaic 5810	Phyllis King 1056
vegetables 5166 shoot, growth, tea 4901, 4905	mosaic viruses, control, shoot-tip culture 1864	Pocahontas 7507 processing, Korea 1059
stimulation, cloud seeding 4922	Phytophthora spp., soil, fumigation 5087	register, USA 4156
sucrose, content, sugar cane 9232	Rubus stunt 3525	Shopska Alena 4315
temperature, correlation, fruit, yield,	Sphaceloma necator, incidence, annual	USSR 5084
grapevine 562 yield variations, coconut 9148	report, German Federal Republic 6669	Rats control
Rambutan fruit, aroma 7171	tobacco streak 2686	bait box 3324
Ramularia deusta, control, sweet pea	tomato ringspot 5810	sugar cane pests, annual report, USA
diseases 7885	transmission, seed 8490	9221
R. phaseoli, bean (Phaseolus) diseases 4474 Ranunculaceae, ornamental species,	virus, vectors 4317 virus, unspecified, symptoms 6683	Warfarin blocks, coconut pests 7188 zinc phosphide, sugar cane pests
Denmark 3863	Raspberry flower	8244–8246
Ranunculus spp.	bud initiation	damage
diseases cucumber mosaic virus 1369	cane, size 1058	assessment
tobacco necrosis virus 1369	growth substances 1058 water relations 1058	coconut pests 1564 sugar cane pests 4081

zaojeet ziiden		1075
Rats contd.	Red currant pests contd.	Respiration contd.
damage contd.	Synanthedon tipuliformis 6677	herbicides
coconut pests 2448	Red currant seed, composition 101	tea 8265
disease incidence, <i>Trachysphaera</i> fructigena, cacao pests 4847	Red currant varieties 1859 comparative trials, Denmark 3518	tomato 6922 leaf
sugar cane, review 1642	disease resistance	anthocyanins, content, ornamental
sugar cane pests 9259	Drepanopeziza ribis 4308	plants 8944
Mexico, sugar cane pests 6440	Mycosphaerella ribis 4308	colour, ornamental plants 8944
sugar cane pests, annual report, Australia 9219	Replanting apple 6551	cycloheximide, geranium 274
Rauwolfia spp.	fruit trees and plants 6551	growth substances, strawberry 5819 light intensity
alkaloids	soil, fumigation, rose, annual report, UK	peach 3491
biosynthesis, tissue culture 2333	6128 Report	pear 3491
content, flower removal 1437 production, tissue culture 5531	Australia, Adelaide, Waite Agricultural	nitrogen nutrition, tea 3281
flower, removal, alkaloids, content 1437	Research Institute 3344, 3602, 3831,	oxygen concentration bean (<i>Phaseolus</i>) 7709
growing, India 767	4094, 6712	radish 7709
growth substances, seed treatment, GA 352	FAO, Technical Working Party on Cocoa Production and Protection 4046	ozone, bean (Phaseolus) 1209, 8681
seed, treatment, GA 352	German Federal Republic, Geisenheim,	photosynthesis
tissue culture	Bundesanstalt für Qualitätsforschung	bean (<i>Phaseolus</i>) 7709 radish 7709
alkaloids biosynthesis, growth substances	Pflanzlicher Erzeugnisse, Geisenheim/Rheingau 8284	plant nutrition, grapevine 5138
2333	Sri Lanka, Peradeniya, Director of	soil, pH, Schizandra chinensis 8968
production 5531	Agriculture 6323	temperature, grapevine 5138
leaf 351 R. suaveolens, alkaloids 9050	USA Honolulu, Hawaii Agricultural	toxins, fusicoccin, bean (<i>Phaseolus</i>) 3712
Rebutia marsoneri	Experiment Station, University of	water relations, grapevine 5138
flower	Hawaii 1940, 6130, 6324, 6382	zinc nutrition, tomato 6080
bud initiation, temperature, photoperiodism 6200	University of Georgia Agricultural Experiment Stations 8320, 8525	light duration, chrysanthemum 7860 light intensity
opening-closing, rhythms 6201	Resins, Grindelia spp. 8025	chrysanthemum 7860
photoperiodism, flower bud, initiation	Respiration	greenhouse crops 5683
6200	bulb	nitrogen, grapevine 7581 photosynthesis 3296
temperature, flower bud, initiation 6200 Red currant	ethylene, treatment, iris 2245 storage, onion 1148	physiology 4
annual report	darkness, sugar cane, annual report, South	grapevine 7581
Belgium 4297	Africa 7230	plant
Netherlands 6670 New Zealand 5074	diseased plants, <i>Luffa</i> spp. 3684 diurnal variations	cold, resistance, pea 654 drought, temperate tree fruits 908
dormancy, breaking, temperature 907	celery 2901	electron transport 1673
economics	rhubarb 2901	frost, resistance, pea 654
EEC 3343 UK 3343	enzyme activity kohl-rabi 6799	fungicides apple 6578
fungicides	plum 7477	stone fruits 4951
injury 4208	turnip 148–149	growth substances, pea 7738
copper oxychloride 4308 zineb 4308	flower, senescence, carnation 7852 frost resistance	humic acid cucumber and gherkin 684
residues .	plum 7477	tomato 684
fruit	Prunus spp. 7477	photosynthesis, bean (<i>Phaseolus</i>) 188
benomyl 4308 mancozeb 4308	fruit apple 52	potassium nutrition, tomato 1295 storage
maneb 4308	annual report, UK 8317	cabbage 1148
harvesting, fruit, loosening 6678	avocado 1465	celery 1148
herbicides decomposition, 2,4-D 7500	banana 1544 calcium, content, apple 1771	pod, cacao 384 root
translocation, 2,4-D 7500	development, apple 4993	grapevine 5137, 5866, 7581
labour requirements 7491	ethylene	magnetic field, bean (Vicia) 6857
mulching peat 4190	production 383 apple 56	nitrogen nutrition, tea 3281 plant nutrition, grapevine 5866
plastic 7495	gamma rays, avocado 1462	salinity, tissue culture, carrot 6944
annual report, Yugoslavia 3517	growth substances	storage
production and trade EEC 3343	apple 5003 chlormequat, apple 1786	carrot 1148, 2744 parsnip 1148
UK 3343	ethephon, mandarin and tangerine	swede 1148
temperature, dormancy, breaking 907	3149	tissue culture, carrot 4592
tissue culture, shoot 2552 weed control 7494	IAA, apple 1772 maturation, citron 8094	seed avocado 1465
Red currant diseases	nitrogen, content, apple 1771	germination, pea 1227
Drepanopeziza ribis	Phytophthora citrophthora, lemon	study, apparatus 870
control, annual report, German Federal Republic 8481	3153 pollination, apple 6581	temperature celery 2901
varietal resistance 4308	post-harvest treatment, gamma rays	greenhouse crops 5683
Gloeosporium spp., varietal resistance	1504	kohl-rabi 6799
Mycosphaerella ribis, varietal resistance	ripening apple 1772	rhubarb 2901 storage, vegetables 2744
4308	apricot 8428	tuber
raspberry ringspot, annual report,	gooseberry 2682	growth substances, artichoke, jerusalem
Netherlands 5073 Verticillium spp., annual report, German	storage banana 3179	tissue culture, artichoke, jerusalem
Federal Republic 4298	capsicum 4543	8599
Red currant fruit	controlled atmosphere	wind
composition 101	ethylene, apple 981 strawberry 3558	bean (<i>Phaseolus</i>) 5254 magnolia 5254
loosening growth substances 6678	pear 5792	pea 5254
ethephon 5801	temperature ,	zinc nutrition, tomato 6922
Red currant growth substances, fruit,	avocado 9073	Rhabdoscelus obscurus
loosening, ethephon 5801, 6678 Red currant pests	mandarin and tangerine 7153 tomato 2744	biological control, sugar cane pests 5653 integrated control, sugar cane 4099
Aphis grossulariae 5079	treatment, gamma rays, post-harvest,	sugar cane pests 4099, 5653
Cryptomyzus ribis 5079	apple 7410–7411	annual report, USA 9221
Eriosoma ulmi 5079 Hyperomyzus lactucae 5079	virus diseases, apple 6565 water relations, banana 3179	report, USA 6382 varietal resistance, sugar cane pests 4082
7.		

094		11011104114141 7100114010 1773 701. 75
Rhacodiella vitis	Rhizoctonia solani contd.	Rhododendron flower
control, grapevine diseases 6757	tomato diseases 4574	bud, proteins, annual report, Canada
graftwood storage, grapevine diseases	R. spp.	2910
3568	Artemisia spp., diseases 336	colour, breeding and selection 7041
Rhadinaphelenchus cocophilus, coconut	celery diseases 2144	development, cytology 4703
pests, annual report, Jamaica 4851	cucumber and gherkin diseases 621	shape, breeding and selection 7041
Rhagoletis cerasi	Dioscorea spp., diseases 6297	Rhododendron propagation
aerial spraying, cherry pests 8438	ferns, diseases, annual report, USA 8834	cuttings 6220, 7042
cherry pests 1000	fungicides, application, method,	treatment, fumigants methyl bromide
annual report, German Federal	quintozene, lettuce diseases 1970	747
Republic 6506	herbicides, capsicum diseases 2843	Rhododendron simsii, taxonomy 7041
control	planting, mechanical, pot plants 5393	R. spp., hybrids, interspecific 4701
baits, cherry pests 1000	soil moisture, oil palm diseases, annual	Rhododendron varieties, comparative studies
cherry pests 5763	report, Nigeria 9181	8947
annual report, German Federal	Rhizoglyphus spp., gladiolus pests, annual	Rhoeo spp.
Republic 7309	report, USA 8834	growth substances, cell, water
R. fausta, cherry pests 1001	Rhizopus arrhizus	permeability, decenylsuccinic acid
R. indifferens, cherry pests 1001	fruit	5313
R. pomonella	ascorbic acid, content, apricot diseases 2616	leaf, cell, water permeability, growth substances, decenylsuccinic acid 5313
annual report, Canada 2515 apple pests, annual report, Canada 8314	phenolic compounds, content, apricot	Rhopalosiphum insertum
Rhamnus spp.	diseases 2616	apple pests, annual report, German
growing, containers 2917	packing straw treatment, pomegranate	Federal Republic 6506
propagation	diseases 9118	population studies, apple pests, annual
seed 2917	R. nigricans	report, UK 3372
photoperiodism 2917	eggplant diseases 1274	R. maidis, virus vectors, manila hemp pests
Rhaphia hookeri, growing, Nigeria, annual	peach diseases, annual report, Australia	2437
report, Nigeria 9181	5693	Rhubarb
Rhaphidopalpa foveicollis, annual report,	R. nodosus, Dioscorea spp., diseases 6297	amino acids, metabolism, light 5318
Cyprus 3604	R. spp.	annual report
Rheum spp.	cherry diseases 5022	Austria 114
rhizome composition, glycosides 1425	fruit storage, fig diseases 1010	UK 1937
root composition, glycosides 1425	heat treatment, papaw diseases 8171	carbohydrates, metabolism, dormancy
Rhinopetalum spp., growing 5440	peach diseases, annual report, USA 451	7759
Rhipsalidopsis spp.	post-harvest dips, papaw diseases 8171 R. stolonifer	cold, responses 7759
flower, bud initiation, temperature,		dormancy, carbohydrates, metabolism 7759
photoperiodism 6200	carrot diseases 695 fumigation, papaw diseases 7217	enzymes, leaf 5895
photoperiodism, flower bud, initiation 6200	peach diseases 5780	forcing
temperature, flower bud, initiation 6200	post-harvest dips, papaw diseases 7217	chilling requirements 7759
Rhizobium leguminosarum	Rhizosphere	dormancy 7759
carbon, pea 8716	micro-organisms .	growing
root	phosphorus nutrition	as a medicinal plant 3062
nodule formation	cabbage 8620	tunnels 1260–1261
seed treatment	tomato 8620	harvesting
sodium glutamate 4497	Rhodiola spp.	time of
pea 5271	flower, development 8933	planting
root secretions, pea 8716	seed	spacing 5886
seed, treatment, pea 208, 5271	development 8933	time 5886
R. phaseoli, root, nodule formation,	germination 8933	light, intensity, photosynthesis 2901
insecticides, bean (Vicia) 201	Rhodococcus bulgariensis, control, rose pests	organic acids 6783
R. spp., inoculation, yield increase, pea	5502 DI - 1	photosynthesis, light, intensity 2901
6003	Rhododendron	planting
Rhizoctonia fragariae, strawberry diseases 1886	altitudes 2985 annual report	spacing 5886 time 5886
R. solani	Belgium 8835	quinones 3085
bean (<i>Phaseolus</i>) diseases, annual report,	Irish Republic 2909	respiration
USA 4367	Netherlands 4604	diurnal variations 2901
cabbage diseases, annual report, USA	USA 1315, 3835	temperature 2901
4367	book 7040	storage, cold, plants, carbohydrates,
cacti, diseases 2267	breeding and selection	metabolism 7759
Carissa grandiflora, diseases 2269, 3002	annual report, Canada 8836	temperature, respiration 2901
celery diseases, annual report, USA 4367	flower	tissue culture, leaf 5318
control, tomato diseases 8779-8780	colour 7041	weed control 3062
cucumber and gherkin diseases, annual	pigments content 7041	Agropyron repens, annual report, UK
report, USA 4368	shape 7041	5885
eggplant diseases 1274 geranium diseases 7864	containers, wood baskets, preservatives 6223	annual report, UK 8583 Rhubarb diseases
herbicides, bean (<i>Phaseolus</i>) diseases	Rhododendron, enzyme activity,	Nectria radicicola 8750
8687	determination 1063	virus, annual report, UK 1934
host nutrition, azalea diseases 2987, 6225	Rhododendron	Rhubarb stem, composition 101
lawns and sports turf, diseases, annual	enzymes, extraction 8949	Rhus spp.
report, ÛSA 8834	glycosides 8036	leaf
nematode complex, tomato diseases 8782	growing	anthocyanins 744
okra diseases 4529	in containers 6223	phenolic compounds 744
Panax ginseng, diseases 3052	weed control 8853	content 1403
parsley diseases 3014	herbicides	Rhynchophorus ferrugineus
philodendron diseases, annual report,	application, mulches 8853	coconut pests 1563
USA 8834	injury, dichlobenil 8851, 8853	annual report, Sri Lanka 7185
phytoalexins, bean (<i>Phaseolus</i>) diseases	moss control, nurseries 743	R. spp., coconut pests 2444
8688 poinsettia diseases 2283	pigments	Ribes aureum, self sterility 4305
radish diseases 2283	content, flower, breeding and selection	R. spp. 6131
annual report	7041	hybrids, diseases, Gloeosporium spp.,
German Federal Republic 7597	determination 7041	resistance 1048
German Federal republic 8579	report, USA 6130 steroids 2988	development soil temperature 3925
relative humidity, azalea diseases 6225	Rhododendron bud, initiation, annual report,	development, soil temperature 3925 growth, soil temperature 3925
Scindapsus spp., diseases, annual report,	UK 4605	shoot
USA 8834	Rhododendron diseases	anatomy 4304
seed-borne, bean (Phaseolus) diseases	Exobasidium spp.	breakage 4304
5982	host anatomy 8948	soil
soil, treatment, beetroot diseases 122	host-pathogen relationships, growth	temperature
temperature, azalea diseases 6225	substances 8948	root development 3925

Subject Index		109
Ribes spp. contd.	Root contd.	Rose contd.
soil contd.	nodule	annual report contd.
temperature contd.	enzyme activity, nitrogen, fixing, pea	German Federal Republic 7843
root growth 3925	1229	Irish Republic 2909
value aesthetic 6131	nitrogen-fixing activity, soil, moisture	Italy 6960
functional 6131	content 2040 nodule bacteria	Netherlands 4604, 6127, 6961
Ribosome activity, drought, resistance, bean	bacterial contamination, pea 4469	UK 2153, 4606, 6128 USA 1441, 6129, 8834
(Phaseolus) 2802	enzyme activity, nitrogen, fixing, pea	breeding and selection 318
Ribosomes	1229	essential oil, content 5471
diseased plants, bean (Phaseolus) 8701	nodule formation	review, India 8840
senescence, bean (<i>Phaseolus</i>) 8701	cobalt nutrition 2814	bromine contents, soil, fumigation, methy
Richardia scabra, as weeds, tomato 6904 R. spp., as weeds, peach 1016	insecticides bean (<i>Vicia</i>) 201	bromide 5394
Ringing	pea 652	carbohydrates, metabolism, seasonal variations 338
avocado 8057	molybdenum nutrition 2814	carbon dioxide
bridge development, Ailanthus spp. 3008	nitrogen nutrition 2814	supplementary
bud, abscission, pistachio 1039	ozone, bean (<i>Phaseolus</i>) 6840	bud break 3921
flower bud	pea 207	flower 7040
development, apple 7402 fruiting potential, grapevine 3592	sodium glutamate, pea 5271 sampling, lawns and sports turf 3883	colour 7949 size 7949
initiation, grapevine 3592	segment cutter 8286	flower bud, initiation 3920
fruit	-shoot relationships	enzyme activity, tissue culture 1395
bunch size, grapevine 3593	apple, annual report, UK 3346	essential oil 764
drop	growth studies 5676	biosynthesis 4747
cherry 8444 orange 4807	systems apple 945	content climate 7990
persimmon 3168	delphinium 1345	irradiation 5471
ripening, grapevine 3593	grapevine 7564	plant nutrition 3952
size	planting	temperature 5471
grapevine 3593	spacing	water relations 3952
annual report, Cyprus 3560	apple 1740, 2548–2549 olive 4025	phosphorus, placement 3951
mandarin and tangerine 803 orange 4807	soil cultivation, black currant 4307	ethylene, flower, senescence 2297
fruiting relationships, apple 6545	soil management	flowering
growth substances	apple 1739	light
endogenous	annual report, Netherlands 5697	artificial 5477
grapevine 1928, 7586	study methods, fruit trees and plants,	intensity 5477
orange 4807, 8083 leaf-fruit relationships, apricot 8427	book 1 trees and shrubs, bibliography 7281	photoperiodism, temperature 6230 pruning and training 7945
photosynthesis, lemon 6353	Root crops, pests, Lygus rugulipennis 4429	temperature, photoperiodism 6230
sugars, metabolism, apple 3414	Rootstocks	fluorine, toxicity, plant tolerance 7845
time of	selection methods, plant composition,	frost
fruit, size, orange 4006	apple 928	injury, seed 2991
grapevine 8570 Roadside	storage, treatment, fungicides, rose, annual report, Netherlands 4604	resistance, carbohydrates, content 338 fungicides, injury, folpet 2995
ground cover plants, annual report, USA	Rosa canina, as a rootstock, rose 2992	growing
2152	R. indica, as a rootstock, rose 2992	book 7047
salinity damage	Rosa multiflora, as a rootstock, rose 2992,	conifer bark humus 7855
Acer spp. 4715 trees and shrubs 313	4708 R. multiflora japonica, as a rootstock, rose	for essential oil production 7990 under glass 7855
turfgrasses, annual report, Canada	8951	economics, Netherlands 1391
2910	R. rubiginosa, as a rootstock, rose 2992	in greenhouses
trees and shrubs, annual report, USA	R. rugosa, as a rootstock, rose, annual	temperature 8953
2152 Readaida planta	report, Irish Republic 2909	weed control 6226–6227
Roadside plants establishment, grasses 3888	R. spp. essential oil, composition 4714	for hip production 8576 India 8840
growing, in containers 2978	flower, sepal, taxonomic value 4705	media, coal ash 8857
lead, content, trees and shrubs 440	fruit, morphology 2989	peat 7855
nutrient absorption, salinity damage, turf	growing, for hip production 2990, 2993	nutrition, nitrogen 8941
grasses, annual report, Canada 2910	growth substances	herbicides, responses 8852
planting, WANE system, trees and shrubs	endogenous determination, xanthoxin 3719	insecticides, injury, Plictran 4712 irradiation
suitability	seed 4707	gamma rays
trees and shrubs 2274	identification 2989	essential oil, content 5471
annual report, Canada 2910	nutrition, fertilizers, placement, seed drills	mutation induction 5471
weed control 8134	2993	irrigation 4713
Rodenticides, zinc phosphide, residues, plant, sugar cane 3258	seed sowing, drills 2993	flower bud, drop 3952 plant nutrition 3952
Rodents, Mexico, sugar cane pests 6440	treatment	light
Roesleria hypogaea, soil, micro-organisms,	soaking, cold water 4707	artificial, flowering 5477
replanting, grapevine 1105	stratification, growth substances,	intensity
Rollinia emarginata, bactericidal properties	content 4707	disorder incidence, petal blueing
9066 Root	temperature, growth substances, content 4707	7949 flowering 5477
composition, fruit, ripening, grapevine	vitamins 2990	interaction
1123	water, absorption 4706	photoperiodism 6230
exudate	seedling, production, nutrition 2993	temperature 6230
composition	taxonomy	supplementary, flower, development 2293
bean (<i>Phaseolus</i>) 189 bean (<i>Vicia</i>) 7725	essential oil 4714 flower, biology 4705	mutants, induction, irradiation, gamma
cucumber and gherkin 189	winter hardiness 2292	rays 5471
photoperiodism, bean (Vicia) 7725	R. wichuriana, flowering, genetics 317	nematicides
studies 6488	Rosaceae, fruit species, tropical America	application
exudation 3	5597	methods compared
growth	Rose air pollution, sulphur dioxide, ethylene,	aldicarb 7948 Vydate 7948
control container-grown plants 7847	injury 6132	injury, Nemagon 1392
copper, container-grown plants 7847	Annual, Royal National Rose Society	photoperiodism
mulching, pear 936	5470	interaction
seasonal variations, grapevine 5114	annual report	light, intensity 6230
soil, cultivation depth, grapevine 5114	Belgium 5386, 8835 Canada 2910	physiology, annual report, USA 3835
mucilagenous layer 4938	Canada 2710	physiology, aimidal report, OBA 3033

Rose contd.	Rose flower contd.	Rose pests contd.
planting	cut contd.	Xiphinema diversicaudatum, vectors,
spacing 2291	packing	latent strawberry ringspot 7947
economics 2291	mechanical 6232	Rose propagation
pruning and training 8576	work studies 4704 preservatives 2997	air-layering 5470 budding
cut flower production 3919 flowering 7945	growth substances 7950	relative humidity 5475
shoot incision 3923	abscisic acid 2301	shield 8951
report, USA 6130	nutrients 3924	T 8951
seedling, development, cotyledon removal	sugars 7950	temperature 5475
5478	production 6231	tunnels, plastic 5475
soilless culture, nutrient solution 2298	programmes 6231 pruning 3919	· cuttings
sulphur dioxide, injury, plant resistance	temperature 8953	containers, compared 3918 media, compared 3918
7845 temperature	senescence 2297, 3922	grafting, bench grafting 4708
disorder incidence, petal blueing 7949	ammonia, content 3924	Rose root, composition, proline, seasonal
essential oil, content 5471	xylem blockage 2290	variations 339
flower	stem length, temperature 8953 vase life 7950	Rose rootstocks
number 8953	xylem blockage 2997	comparative trials 7048
size 8953	development, light, supplementary 2293	dormancy, breaking, annual report, UK
interaction light, intensity 6230	grading, economics 749	3833 nematode resistance 1393
photoperiodism 6230	number nitrogen nutrition 748, 7946	propagation, seed, annual report, UK
tissue culture	potassium nutrition 748, 7946	3833
cell suspension	temperature 8953	review 2992
carbon dioxide requirements 8955	pigments 2300	Rosa multiflora japonica 8951
cell aggregation 8956	quality	-scion relationships, comparative trials
growth substances, treatment 8956 media pH 8955	nitrogen nutrition 748 potassium nutrition 748	Rose shoot, composition, proline, seasonal
pigments, biosynthesis 1395	senescence 2297, 3922	variations 339
enzyme activity 1395	size	Rose soil
pigments, biosynthesis 1394	carbon dioxide, supplementary 7949	bicarbonate, lime-induced 2994
stem cells 319	temperature 8953	fumigation
transport, vacuum cooling 2164 water relations, grafted and own-rooted	stem length	injury, methyl bromide 5394 methyl bromide, plant composition,
plants compared 4713	nitrogen nutrition 7946	bromine 5394
weed control 8852	nutrition 2294	moisture
greenhouses 6226–6227	potassium nutrition 7946	bicarbonate formation, lime-induced
winter hardiness, varietal differences	terpenes 9004	chlorosis 2994
2292, 5473 Rose bud	Rose growth substances bud break	green manures 6267 salinity
break	adenine 3921	chlorine 2161
carbon dioxide, supplementary 3921	BA 3921	plant, tolerance 2161
growth substances	GA 3921	sodium 2161
adenine 3921 BA 3921	endogenous, flower, senescence 2297, 3922	types, essential oil production 764
GA 3921	flower, senescence, abscisic acid 3922	Rose varieties for arid regions 4713
pruning and training 3921	flowers, cut	classification 5470, 5474
wounding 3921	preservatives	comparative studies 8953
Rose diseases 3319	abscisic acid 2301	comparative trials
Diplocarpon rosae 2995 control 5476, 8305	aminozide 7950 ancymidol 7950	Finland 8950 German Federal Republic 5472–5473
resistance 6266	chlormequat 7950	disease incidence, latent strawberry
varietal resistance 5473, 8950	HQC 7950	ringspot 7947
green petal 2295	SD-8339 7950	disease resistance
latent strawberry ringspot 7947	stomatal mechanism, ABA 194	Diplocarpon rosae 5473, 6266, 8950
mosaic, report, Australia 3831 Phragmidium mucronatum 6228	Rose leaf removal, potassium iodide 2299	Phragmidium spp. 4709 Pragmidium mucronatum 8950
annual report, German Federal	stomatal mechanism 194	Sphaerotheca pannosa 4709, 8950
Republic 6959	Rose nutrition 3952	S. spp. 5473
varietal resistance 8950	annual report, Netherlands 6962	identification 2989
P. spp., varietal resistance 4709	general, leaf analysis, symposium 2489	list 5474
Sphaerotheca pannosa 6229 annual report	green manures 6267 iron, chlorosis 6268	winter hardiness 2292 Rosellinia necatrix
Denmark 3298	nitrogen 2294	apricot diseases 63
UK 8838	flower	olive diseases 3166
control 5476, 7848	colour 2294	R. spp., alternative hosts, narcissus disease
varietal resistance 4709, 8950 S. spp., varietal resistance 5473	number 748, 7946 quality 748	7013 Rosemary
Rose disorders	stem length 7946	essential oil 4738
chlorosis	NPK 6267	determination 3024
iron nutrition 6268	phosphorus 7946	Rosemary soil
soil bicarbonate 2994 petal blueing 7949	placement 3951 potassium 2294	salinity
Rose flower	flower	plant, tolerance 2161 sodium, chlorine 2161
bud drop	colour 2294	Rosellinia necatrix
plant nutrition 3952	number 748, 7946	fruit trees and plants, diseases 7318
water relations 3952 bud initiation 2996	quality 748	nursery stock, diseases 7318
carbon dioxide 3920	stem length 7946 Rose pests	Rotylenchulus reniformis citrus pests 2394
light 6230	Agrilus spp. 7084	okra pests 2394, 2460
photoperiodism 6230	Hemicriconemoides chitwoodi 5132	papaw pests 2460
temperature 6230	Meloidogyne hapla, rootstock resistance	pineapple pests 2394
colour, carbon dioxide, supplementary 7949	1393 Protulenchus penetrans	population studies, tomato pests 6091
composition, proline, seasonal variations	Pratylenchus penetrans nematicides, application, methods	tomato pests 2394 varietal resistance, tomato pests 7771
339	compared 7948	Rotylenchus spp., sugar cane pests 7246
cut	rootstock resistance 1393	R. uniformis, carrot pests, annual report,
carbohydrates, translocation 2296	P. vulnus 1392	Netherlands 6772
economics 4608 grading, mechanical 6232	Rhodococcus bulgariensis, control 5502 Tetranychus telarius 4710, 4712, 8954	Rubber aluminium, determination 7227
nitrogen, metabolism 3924	predators, <i>Phytoseiulus persimilis</i> 4711	annual report, France 3250, 9205

Subject Index		1097
Rubber contd.	Rubber diseases contd.	Rumania
breeding and selection, disease resistance	Microcyclus ulei	Jassy, Institute of Agronomy, Faculty of
844	Brazil 9214	Horticulture, organization and
clones	control 9214	activities 2
comparative trials Indonesia 9206	rainfall 9214 Trinidad and Tobago 9214	quince varieties, comparative studies 7482
Malaysia 7221–7222	Oidium heveae	Rumex spp.
disease resistance	book 6425	amino acids, content, water deficiency
Dothidella ulei 8181	clonal susceptibility 8182	3628
Pellicularia filamentosa 8181	seasonal susceptibility 8182	leaf, organic acids, content 8594
Phytophthora palmivora 8181	secondary leaf fall, prevention 8183	nutritional value, amino acids 3628
Sri Lanka 9207 cover crops 8177	O. spp., clonal resistance 7222 Pellicularia filamentosa, clonal resistance	proteins, content, water deficiency 3628 soilless culture 4379
legumes 8178, 9211	8181	water relations
defoliation, chemical 8183	Phytophthora palmivora 8184	plant
enzyme activity, inhibition, prenyl	clonal resistance 8181	amino acids, content 3628
pyrophosphates 2030	control 6384	proteins, content 3628 as weeds
enzymes, latex 3254	root rots 844	asparagus 5291
ground cover plants, legumes 4881	Rubber growth substances	grapevine 5840
growing Liberia 8184	application, methods, ethephon 8184 latex, production, ethephon 3255, 9217	Ruta graveolens
Malaysia 8176	responses	coumarins, biosynthesis, tissue culture 9052
herbicides	2,4-D 8184	growing 8038
injury	ethephon 8184	as an annual crop 4772
bromacil 8180	rooting, IBA 7228	tissue culture, root, coumarins,
diuron 9208	Rubber leaf	biosynthesis 9052
intercropping banana 8178	area, measurement 3251	R. spp. alkaloids 9056
cassava 8178	fall secondary 8182	biosynthesis 9054
latex	prevention 8183	chlorophyll
enzymes 3254	Rubber nutrition 864, 3252	content, tissue culture 9053
lutoids 9216	general	metabolism, tissue culture 9053
growth substances 9217	leaf analysis 5643-5644	coumarins 8000, 9051 biosynthesis 9055
ethephon 3255	soil analysis 5643–5644	essential oil
physiology 9216	magnesium, deficiency, soil, analysis 1616	biosynthesis, tissue culture 9051
mulching, plastic, weed control 4077	nitrogen 1616, 6422	composition 8037
parasitic plants, mistletoe 8184 planting	leaf analysis 1616	tissue culture, light 9051 lignans 8000
growth substances, treatments, IBA	soil analysis 1616	tissue culture
7228	phosphorus 1616, 3253	callus
material, Malaya 8176	deficiency, symptoms 3253	chlorophyll
site preparation forest tree felling	leaf analysis 1616, 3253	content 9053 metabolism 9053
arboricides, disease incidence	soil analysis 1616, 3253 potassium 1616	coumarins, biosynthesis 9051
7223	leaf analysis 1616	terpenes
ringing, disease incidence 7223	soil analysis 1616	content 9053
pollen, studies 8186	Rubber pests 1696	metabolism 9053 Saccharicoccus sacchari
production, annual report, Sarawak 4036 research	Helicotylenchus spp. 9215	East Africa, survey, sugar cane pests
Cameroon, annual report, France 9205	insects 8184	8220
Ivory Coast, annual report, France	mammals 8184 Meloidogyne incognita 9215	parasites, Anagyrus saccharicola, sugar
9205	mites 8184	cane pests 8242
shade, weed control 9209 spraying, equipment 8185	Pratylenchus brachyurus 9215	Saccharosydne saccharivora, host-pest relationships, sugar cane pests 8243
tapping 8187	review, Bolivia 5671	Saccharum spontaneum, breeding and
systems 6426	Trichodorus christiei 9215	selection 2465
yield estimation 6426	Rubber plant	S. spp., photoperiodism, flowering date
weed control 1615, 4076, 4881, 5642,	anatomy latex vessel rings 6420	1646 Sagalassa valida, oil palm pests 9189
6421, 7224, 8179, 9210–9211 Borreria spp. 9208	latex vessels 6420	Sahlbergella singularis
Eleusine spp. 9208	Rubber propagation	cacao pests 3182
Imperata spp. 9209	budding 2462	annual report
methods compared 4077, 7226	time of, disease incidence, <i>Diplodia</i> spp.	Ghana 7177 Nigeria 4035
nurseries 7225, 8180, 9208, 9211 review 8121	Rubber soil, nutrients, Sri Lanka 5644	incidence, cacao pests 2443
wind, damage, clonal resistance 7222	Rubia spp., root, composition 758	population studies, cacao pests 9143
yield, estimation, tapping systems 6426	R. tinctorum, quinones, biosynthesis 5493	Saintpaulia
Rubber diseases	Rubidium	breeding and selection, mutation induction
Ceratocystis fimbriata 4078–4079	absorption, leaf, tissue culture, bean (<i>Phaseolus</i>) 8697	frost, injury, petiole, ice formation 2935
control 6384, 9212–9213 Colletotrichum gloeosporioides 844,	soil compaction, sugar cane 8212	growing
6423-6424	Rubus chamaemorus	media, coal ash 8857
clonal susceptibility 8182	growing, afforestation sites 7511	as pot plants, production 5390
seasonal susceptibility 8182 secondary leaf fall, prevention 8183	soil, management 7511 R. spp.	fast neutrons, mutation induction 1352
secondary leaf fall, prevention 8183 Corticium salmonicolor	fruit, composition 101	X-rays, mutation induction 1352
clonal resistance 7222	growing, USSR 4299	Saintpaulia diseases *
clonal susceptibility 844	pests, Byturus tomentosus, annual report,	Erwinia chrysanthemi 2939
die back 844	UK 1856	Phytophthora nicotianae 8878 control 7889
Diplodia spp	plant variation 6680 pollination 533	incidence, annual report, German
budding time 8181	sterols, extraction 1053	Federal Republic 8837
cultural methods 8181	triterpenes, extraction 1053	Saintpaulia leaf, petiole, temperature,
Dothidella ulei, clonal resistance 8181	as weeds, grapevine 5840	measurement 2935
Fomes lignosus	breeding and selection 6164	Saintpaulia nutrition 1325 Saintpaulia propagation
host reactions 5645 planting site, preparation 7223	mutants, induction 6164	cuttings
general 8184	Rudbeckia flower	leaf
Gloeosporium spp., clonal resistance	glycosides, content 5415	petiole length 7887
7222	Pudhockia seed treatment mutagens 6164	supplementary light 7887 treatment, growth substances 7887
leaf diseases 844	Rudbeckia seed, treatment, mutagens 6164	treatment, growth substances 7667

Saintpaulia propagation contd. cuttings contd.	Sanguisorba spp., essential oil, content 7983	Schleichera trijuga, lipids, content 2373 Schlumbergera spp.
media 8844	S. spp, roadsides, establishment 3888	flower bud
Saintpaulia varieties	Sanninoidea spp., control, peach pests,	initiation
comparative trials 6999, 7888	annual report, USA 8319	photoperiodism 309
disease resistance, Phytophthora	Sansevieria growth substances, translocation,	temperature 309
nicotianae 8878	heteroauxin 1320	photoperiodism, flower bud, initiation
Saissetia oleae, mandarin and tangerine	Sansevieria leaf, composition, sapogenins	temperature, flower bud, initiation 309
pests 9098	308 Sansevieria nutrition	Sciadophyllum spp., propagation, cuttings
Salinity	major elements, plant analysis 1376	2168
leaf senescence, bean (<i>Phaseolus</i>) 2879,	minor elements, plant analysis 1376	Scindapsus spp.
5244	Santalum spp.	annual report, USA 8834
prevention, anti-transpirants,	diseases	diseases, Pythium splendens, vontrol
ornamental trees and shrubs, annual	spike disease 7086	6204
report, Canada 8836	sandal spike	nutrition
shoot growth, Acer spp. 4715	control 2329 fungicides 3038	major elements, plant, analysis 1376 minor elements, plant, analysis 1376
trees and shrubs, roadside 313	vectors, dodder 6270	plant, composition, major and minor
turfgrasses, roadside, annual report,	Sap	elements 1376
Canada 2910	analysis, nutritional studies, vegetables,	propagation
water relations, sugar cane 6439	annual report, UK 1934	cuttings
greenhouse soils, tomato, annual report, USA 1935	carbohydrates, content, seasonal	treatment
resistance, leaf, pigments, berberis 2998	variations, apple 8403 rise, rootstock-scion relationships,	fungicides benomyl 6204
Salix humboldtiana	grapevine 2726	Dexon 6204
pests	Sapodilla	streptomycin 6204
Xylosandrus morigerus	annual report, India 4034	Terrazole 6204
alternative hosts	ethylene, fruit, ripening 4045	Scirpophaga nivella
avocado 8154	growing	sugar cane pests 426
coffee 8154	USA 1531 Venezuela 8119	varietal resistance, sugar cane pests 16 Scirtothrips aurantii, citrus pests 4003
Salmalia malabarica essential oil 1438	polyploids, induction 9218	S. signipennis, banana pests 380
flower, composition 1438	Sapodilla diseases	Sclerospora sacchari
Salsify, pollen, viability 140	Botryodiplodia theobromae 6427	control, sugar cane diseases 8219
Salsify root	Pestalotia scirrofaciens 2464	incidence, sugar cane diseases 8219
anatomy 5917	Sapodilla fruit	resistance, sugar cane diseases 5648
carbohydrate storage 5917 Salvia	aroma 7171 ripening, growth substances, ethephon	Sclerotinia borealis, lawns and sports turf diseases 1371, 6195
dwarfing, growth substances 5390	4045	S. bulborum, soil, fumigation, tulip disease
herbicides, responses 8852	Sapodilla growth substances, fruit, ripening,	2959
ozone, injury 1322	ethephon 4045	S. cepivorum, onion diseases, annual repor
seedling raising, pots, types compared	Sapodilla leaf, glycosides, content 2341	Irish Republic 1939
5390	Sapogenins, content, Dioscorea spp. 1454	S. cydoniae
sulphur dioxide, injury 1322 weed control 3062, 8852	Saponaria spp., growth substances, translocation, heteroauxin 1320	control, quince diseases 8479 medlar diseases 5800
Salvia grandiflora, essential oil 4738	Saponins 1520	quince diseases 5800
Salvia growth substances, dwarfing,	content	S. fructicola
Pydanon 5390	disease resistance, ivy 5464	cherry diseases 8475
Salvia nutrition, phosphorus 6133	root, pea 7743	control, peach diseases 7448, 8305
Salvia sclarea	plant sources, India 7065	heat treatment
amino acids, biosynthesis, photoperiodism, coloured light 7085	production, tissue culture, <i>Dioscorea</i> spp. 6296	cherry diseases 6619 peach diseases 6619
essential oil, content 3037	Sapotaceae, growing, fruit production 5646	incidence, peach diseases 6634
flower	Sappaphis devecta, resistance, apple pests	medlar diseases 5800
anatomy 3037	44	peach diseases 7450, 8475
morphology 3037	Satureia spp.	annual report, Australia 5693
light	essential oil 329	plum diseases 8475
coloured	composition 329	post-harvest dips
amino acids, biosynthesis 7085 proteins, biosynthesis 7085	soilless culture 5487 weed control 5490	cherry diseases 6619, 7481 nectarine diseases 7481
sugars, biosynthesis 7085	annual report, German Federal	peach diseases 6619, 7481
nitrates, biosynthesis, red light 7085	Republic 7064	plum diseases 7481
photoperiodism	Sawdust	quince diseases 5800
amino acids, biosynthesis 7085	media, container-grown plants, annual	S. fructigena
proteins, biosynthesis 7085 sugars, biosynthesis 7085	report, Canada 3370 media constituent, physical properties	aerial spraying, cherry diseases 8438 apricot diseases 2613
proteins, biosynthesis, photoperiodism,	7291	fruit storage, apple diseases 5751
coloured light 7085	mulch, tomato 7779	fruit sugars, content, apricot diseases
sugars, biosynthesis, photoperiodism,	soil amendment	5757
coloured light 7085	blueberry 4657, 8497	medlar diseases 5800
S. spp.	iris 4657	quince diseases 5800
chlorophyll, content, soil moisture 6269 essential oil	Saxifragaceae 6131 value, aesthetic, functional 6131	S. homoeocarpa control, lawns and sports turf, diseases
content	Scambus spp., biological control of, Aegeria	8918
seed treatment 3026	myopaeformis 3409	Cynodon spp. diseases, annual report,
soil moisture 6269	Scapanes australis, coconut pests 2444	USA 2152
flowering date, photoperiodism 1348	Schinus molle, pests, review, Bolivia 5671	lawns and sports turf, diseases, annual
growth substances, retardants, Pydanon 2163	Schistocerca obscura cabbage pests, annual report, USA 4367	report, USA 8834 S. laxa
photoperiodism	celery pests, annual report, USA 8585	apricot diseases 2614
dwarfing 1348	Schizandra chinensis	cherry diseases 2613-2614, 2624
flowering date 1348	chlorophyll, content, soil pH 8968	control
plant, composition, seed treatment 3026	growing, USSR 4299	apricot diseases 6612
pollen, viability 1411	photosynthesis, soil pH 8968	cherry diseases 6612
pollination 1411 seed	respiration, leaf, soil, pH 8968	damage, leaf pigmentation, apricot
treatment	soil, pH, leaf metabolism 8968 stomata, movements, soil pH 8968	diseases 5015 medlar diseases 5800
fast neutrons 3026	transpiration, soil pH 8968	quince diseases 5800
gamma rays 3026	Schizonycha affinis, sugar cane pests, annual	resistance, apricot diseases, annual repo
Sandoricum indicum, fruit, composition	report, South Africa 7230	Tunisia 4944
3294 Sanguinaria canadensis, alkaloids 5532	Schizotetranychus andropogoni, sugar cane pests 8233	varietal resistance, cherry diseases 661

Sclerotinia contd.	Scopolia contd.	Seed contd.
S. mespili	S. spp.	development contd.
medlar diseases 5800	biosynthesis, tissue culture 2333	proteins, biosynthesis, bean (Vicia)
quince diseases 5800	hybrids	2046
Sclerotinia minor, lettuce diseases 135,	alkaloids 6313, 8039	dormancy
5184, 7633	chlorogenic acid 8039	breaking
S. narcissicola, incidence, narcissus diseases, annual report, UK 2153	coumarins 8039 flavonoids 8039	grapevine 6718
Sclerotinia sclerotiorum	plant	growth substances, endogenous, hazel 8448
bean (Phaseolus) diseases 644, 1214	anatomy 6312	Vaccinium spp. 5091
annual report, USA 4367	morphology 6313	flowering annuals 725
brassicas, diseases, annual report,	morphology 1455	rose, annual report, Belgium 5386
Australia 5882 chicory diseases, annual report, Irish	plant, anatomy 6312	winter hardiness, apple 2542
Republic 1939	tissue culture, alkaloids, biosynthesis,	drying, silica gel, vegetables 1137 enzyme activity, bean (<i>Phaseolus</i>) 192
control	growth substances 2333	exudate exudate
bean (Phaseolus) diseases 7707	weed control 3062	composition
cabbage diseases 7656	S. tangutica alkaloids, content, plant, age 5533	bean (Phaseolus) 189
forecasting, bean (<i>Phaseolus</i>) diseases	plant, variation 5533	cucumber and gherkin 189
7707 incidence, bean (<i>Phaseolus</i>) diseases 7707	Scopulariopsis brevicaulis, fungal parasite,	frost, injury, rose 2991
lettuce diseases 7633	Cydia pomonella, apple 1768, 8396	germination chamber, oil palm 7208
post-harvest dips	Scoring	cytological changes, pea 656
bean (Phaseolus) diseases 8706	flower, number, apple 966	enzyme activity
celery diseases 6948	shoot, growth, apple 966	onion 2833
post-harvest sprays, celery diseases 6948	Scorzonera	pea 2062, 2818, 5280, 8723
soil, fumigation 2206 stock diseases 4643	annual report, Belgium 1131	ethylene production, lettuce 1977
varietal resistance, lettuce diseases 4403	fungicides residues	glycosides, metabolism, bean (<i>Vicia</i>) 2806
S. spp.	determination	growth substances
apple diseases, annual report, UK 903	benomyl 7609	avocado 9069
control	thiophanate 7610	peach 2637
apple diseases 7413	growing, investigations, Belgium 1160	review, vegetables 4374
celeriac diseases, annual report, German Federal Republic 7600	weed control, review 4415 Scorzonera diseases	inhibition
cherry diseases, annual report, USA	control, review 4415	copper, cabbage 6078 darkness, lettuce 5181
8319	cucumber mosaic, incidence, German	growth substances
cucumber and gherkin diseases	Democratic Republic 7637	ABA, lettuce 1155
annual report	Scorzonera pests, control, review 4415	lettuce 3644, 3647
German Federal Republic 7598	Scorzonera root	light
Netherlands 1135 incidence, lettuce diseases 5910	anatomy 5917 carbohydrate storage 5917	blue 5180 Neophila spp. 3861
peach diseases	Scotland, horticulture, economics 12	far-red 5180
annual report	Scymnus gracilis, predator on,	Neophila spp. 3861
Australia 450	Eutetranychus orientalis, citrus	N-phenacetyl amino acids, radish
USA 451, 1706	1488–1489	8637
plum diseases, annual report, UK 8316 varietal resistance, cherry diseases 6615	Sechium edule, diseases, Agrobacterium tumefaciens, incidence, Brazil 8652	nutrients, lettuce 1155 reversal, light, red, <i>Nemophila</i> spp.
vegetables, diseases, annual report,	Sedges	3861
German Federal Republic 7598	as weeds	sugars, lettuce 1155
S. urnula, blueberry diseases, annual report,	pineapple 8172	tomato 1281
USA 5077	rubber 4881	irrigation, lettuce 5185
Sclerotium cepivorum onion diseases	vegetables 1946 Sedum spp.	light far-red, lettuce 1976
annual report	carbon dioxide, fixation, darkness 4674	interaction, temperature, valerian
Netherlands 6772	darkness, carbon dioxide, fixation 4674	3978
UK 1934, 5885, 8583	diseases, Phoma telephii 1374	red, lettuce 1976-1977
USA 1130	flower	Vaccinium spp. 5091
S. rolfsii bean (<i>Phaseolus</i>) diseases, annual report,	bud initiation, photoperiodism 8932 development 8933	mango 840 media
USA 4367	ground cover plants 710	lettuce 5185
control, tomato diseases 8780	photoperiodism	mango 840
fruit trees and plants, diseases 7318	flower bud, initiation 8932	palms 2415
incidence, Brazil, bean (Phaseolus)	shoot, growth 8932	metabolic processes
diseases 5235	propagation cuttings	avocado 9069 <i>Digitalis</i> spp. 3075
nursery stock, diseases 7318 philodendron diseases, annual report,	treatment	fruit trees and plants 2523
USA 8834	ethylene 5456	pea 215
Scindapsus spp., diseases, annual report,	growth substances 5456	pelleted seed
USA 8834	seed	tomato 7774
statice diseases 2937	development 8933 germination 8933	vegetables 3623 phytochrome metabolism, squash 5208
S. wakkeri iris diseases 3317	shoot, growth, photoperiodism 8932	under plastic, lettuce 5185
tulip diseases 3317	stomata, distribution 5406	polysome formation, lettuce 5181
Scolothrips indica, predator on,	weed control 710	proteins
Eutetranychus orientalis, citrus 1489	Seed	metabolism, bean (Phaseolus) 5239
S. indicus, predator on, Eutetranychus	carbohydrates, content growth substances,	radish 8641 respiration, pea 1227
orientalis, citrus 1488 S. sexmaculatus, predator on, Tetranychus	Ammi spp. 9019 chromones, content growth substances,	ripeness, Hippophaë spp. 5481
pacificus, peach 81	Ammi spp. 9019	seed maturity, Agathosma spp. 6234
Scolytus mali, cherry pests 8440	composition	seed size
S. mediterraneus, host preference 94	amino acids, bean (Vicia) 199	Chaenomeles spp. 3001
Scoparia spp.	Antholyza spp. 2943	cyclamen 6169
diseases, mycoplasma 833	Babiana spp. 2943 growth substances	lettuce 3645 sources, position in pod, cacao, annual
as weeds, coconut 833 Scopolia carniolica	cucumber and gherkin 1197	report, Nigeria 4035
alkaloids, biosynthesis, growth substances	melon (cantaloup and musk) 1197	sowing, depth, liquorice 1457
8002	Iridaceae 2943	temperature 3646
chlorophyll, biosynthesis, growth	Melasphaerula spp. 2943	carrot 6940
substances 8002	protein, bean (<i>Phaseolus</i>) 197	cyclamen 4652
growth substances alkaloids, biosynthesis, GA 8002	Tigridia spp. 2943 development	Duboisia myoporoides 6298 ethylene, lettuce 6788
chlorophyll, biosynthesis, GA 8002	Plumbago spp. 323 ·	ethylene production, lettuce 1977
E , ,,,	- 11	

Seed contd.	Seed contd.	Seed contd.
germination contd.	sowing contd.	treatment contd.
temperature contd.	direct contd.	fungicides contd.
leek 5299	pelleted contd.	thiram, pea 7731
lettuce 3645, 5185	vegetables 1943	TMTD, Hippophaë spp. 7957
liquorice 1457	in pots, bedding plants 2165	vegetables 3622
palms 2415	direct v. transplanting	walnut 1042
Primula spp. 2203	brassicas, annual report, UK 3610	gamma rays
Vaccinium spp. 5091	tomato 7780	apple 6531
valerian 3978	disease incidence, onion 3763	cucumber and gherkin 154
vegetables 2093-2094	drills	feijoa 8109
testing	annual report, UK 2487	lettuce 1965
equipment 2491	cauliflower and broccoli 1162	okra, annual report, India 3607
media, flowering annuals 725 water relations 3646	vegetables 1138 annual report, Netherlands 1132	onion 8738
pea 1227, 6860	in foam 4915	plant respiration, bean (<i>Phaseolus</i>)
grading, weed seed, identification,	mechanical	3711
vegetables 2736	equipment	root formation on cuttings, bean
growth substances	lettuce 5908	(Phaseolus) 3711
content	vegetables 6939	Salvia spp. 3026 stratification, apple 6531
peach 5772	vegetables 1138	tomato 245–246
Protea spp. 750	methods, lawns and sports turf	growth substances
number per fruit, fruit, size, orange 4808	3886–3887	abscisic acid, apple 3380
biosynthesis 3336	orientation, bean (<i>Phaseolus</i>) 5237 programme	cabbage 8616
rainfall, <i>Eruca sativa</i> 8982	continuous production	cycloheximide, squash 5208
composition, Iridaceae 2943	vegetables 1163	ethephon, lettuce 3647
content growth substances, Ammi spp.	annual report, UK 3610	GA
9019	row direction, onion 3763	citrus 1468
production	spacing	Duboisia myoporoides 6298
bulb treatment, onion 2089	lettuce 5908	eggplant 3783
carnation 6967	onion 3763	pea 4498
coconut 3187	tape	grapevine 6718 IAA
cyclamen 2226 Festuca rubra 3896	annual report, Austria 114 lettuce 5908	eggplant 3783
fruit	vegetables 1138	lettuce 3647
set, petal removal, carnation 5403	storage	pea 4498
size, capsicum 6046	bean (Phaseolus) 1206	kinetin
grasses 3896	enzyme activity, pea 8723	lettuce 3647
growth substances	mango 840	pea 4498
carrot 6947	methods compared	lettuce 137
cucurbits 5231	pea 6860	NAA
lettuce 5914	walnut 1042	eggplant 3783 lettuce 3647
gynoecious lines, melon (cantaloup and	onion, annual report, UK 3612 relative humidity, bean (<i>Phaseolus</i>)	N ⁶ -benzyladenine, celery 1309
musk) 2006 harvesting	639	okra 7758
time of	temperature	peach 2637
bean (Phaseolus) 5262	bean (Phaseolus) 639	Rauwolfia spp. 352
capsicum 6046	pea 208	review, vegetables 4374
carrot 6113	viability, flowering annuals 725	hardening, melon (cantaloup and mus
Hippophaë spp. 5481	treatment	6809
nitrogen nutrition, cucurbits 6816	acaricides, squash 630	heat 1690
okra 234 onion 663	Actinomyces griseoruber extracts, cabbage 6792	cabbage 4425 hydrochloric acid, peach 507
phosphorus nutrition, cucurbits 6816	bacterial fertilizers, tomato 6074	hydrophobic compounds, onion
planting	boron, vegetables 6078	6025-6026
spacing, watermelon 1186	capsicum fruit extract, vegetables	hydroquinone 6899
time of, onion, annual report, New	2093–2094	2-hydroxethylhydrazine, pea 224
Zealand 5152	cobalt, tomato 6078	hypertonic salt solution, vegetables
Poa pratensis 3896	colchicine, tetraploids, gerbera 1337	6061
pollination	cold	insecticides
bees, vegetables 5899	cold resistance, melon (cantaloup and	bean (<i>Phaseolus</i>) 8692
cacao 3180 methods compared, lily 2952	musk) 7677 <i>Vaccinium</i> spp. 5091	chlorfenvinfos, bean (<i>Phaseolus</i>) 5252
primula 6156	water relations, melon (cantaloup and	dichlofenthion, bean (Phaseolus)
potassium nutrition, cucurbits 6816	musk) 7677	5252
radish 616	copper	radish 4438
rainfall, Eruca sativa 8982	carrot 6108	squash 630
seed, sowing, date, carrot 692	vegetables 6078	watermelon 2002
steckling, planting, radish 3671	electromagnetic fields	ionizing irradiation
tea 1660 tomato 2853	bean (<i>Phaseolus</i>) 5226	fruit
vegetables, annual report, Belgium	cucumber and gherkin 5226 ethylene	ripening, eggplant 2852 size, eggplant 2852
4363	lettuce 6788	light
proteins, extraction, almond 3368	carbon dioxide presence 1154	far-red
quality	fast neutrons, Salvia spp. 3026	lettuce 136, 1976
growth substances, carrot 6947	fruit juice, Vaccinium spp. 5091	squash 5208
standards, vegetables, annual report,	fungicides	red
Italy 6771	benomyl 6847	alkaloids, content, Solanum
vegetables, symposium 4372 ripening, enzyme activity, pea 8723	bean (<i>Phaseolus</i>) 6847 cabbage 4425	dulcamara 7113 lettuce 136, 1976, 6788
size	vegetables 6861	squash 5208
growth substances, carrot 6947	cacti 8921	ultra-violet, alkaloids, content,
harvesting, time of, carrot 6113	captan, pea 5277	medicinal plants 6288
seedling growth, Chaenomeles spp.	carboxin + thiram, onion 7751	white, alkaloids, content, Solanum
3001	carrot 693	dulcamara 7113
soaking, injury, bean (<i>Phaseolus</i>) 192	chloroneb, pea 7731	manganese, vegetables 6078, 7773
sorting, air flow, vegetables 4373	coffee 3193	methods compared, Zizyphus
sowing dates, onion 3763	cucumber and gherkin 5955 cumin 3937	mauritiana 3292 methylene blue 6899
direct	kocide, cacao 8135	molybdenum
pelleted	onion 6875	bean (Phaseolus) 5242
bedding plants 2165	spinach 6785	vegetables 6078

aojeci maex		1101
eed contd.	Seedling contd.	Septoria apii
treatment contd.	growth	post-harvest dips, celery diseases 6948
mutagens	plumular protection 20	post-harvest sprays, celery diseases 6948
flower, colour, carnation 268 fruit composition, tomato 7769	Pseudomonas spp., cucumber and gherkin 5212	S. apii-graveolentis, celery diseases 2143 S. apiicola
pea 205	seed	celery diseases 2900
rudbeckia 6164	position in fruit, vegetables 6061	annual report, UK 1934
tomato 2857	shape, vegetables 6061	control, celery diseases 7822
nematicides, Nemacur, vegetables 2394	size	pathogenicity, celery diseases 8816
nutrients	Chaenomeles spp. 3001	S. lycopersici
capsicum 6892 Hippophaë spp. 5482	pea 1228 vegetables 6061	host enzyme activity, tomato diseases
lettuce 137	studies, equipment 4916	4575 resistance, tomato diseases 4575
Ocimum sanctum leaf extract,	identification, leaf, shape, mandarin and	S. spp.
Catharanthus roseus 8011	tangerine 7124	fungal parasites, Puccinia palargonii-
orthonitrophenol 6899	planting	zonalis, geranium 6982
paranitrophenol 6899 pelleted	mechanical, vegetables 1138 tools 2077	gooseberry diseases 2679
annual report, Austria 114	pricking out	Serrodes partita traps
bedding plants 2165	root trimming, anthurium 6991	light
lettuce	work studies, tulip 1317	apricot pests 4259
annual report	production	peach pests 4259
Canada 2734 UK 5153	economics, Hungary, vegetables 6776	Seseli rigidum, coumarins 9057 S. sessiliflorum
onion 6876	n greenhouses plastic, economics, tomato 5339	chromones 3975
pansy 1353	types compared 6493	coumarins 3975
tomato 7774	nutrition, sugar cane, annual report,	Setaria lutescens, as weeds, lawns and sports
vegetables 1943, 3623	USA 9221	turf 8914
potassium iodide, raspberry 5807	temperature, annuals 276	S. spp.
protons, lettuce 1965 Pseudomonas spp., Colletotrichm	bare root method, tomato 4557	as weeds carrot 8809
lagenarium control, melon	carbon dioxide, supplementary,	vegetables 680
(cantaloup and musk) 5952	vegetables 2880	Severinia buxifolia
Rhizobium leguminosarum, pea 208,	containers	alkaloids, content 6331
5271	annuals 2218	leaf, composition 6331
running water, grapevine 6718	types compared, melon (cantaloup	pests, Tylenchulus semipenetrans,
scarification, peach 507 soaking	and musk) 7678 vegetables 1138	resistance 3100 as a rootstock, citrus 6331
cold water	light	Sewage sludge, vegetables, annual report,
peach 507	artificial, lettuce 8604	UK 3613, 8584
Rosa spp. 4707	supplementary	Shade
sodium glutamate, Rhizobium	tomato 6096	anthurium 7977
leguminosarum, pea 4497, 5271	vegetables 2880 media, tomato 4557	nutrition 7877
sterilization, disease control, carrot	methods compared, cabbage 4421	plant responses 7877 apple, plant responses, annual report, UK
stratification	paper tubes, cauliflower and broccoli,	8317
apple 2542, 6531	annual report, UK 1937	cacao
citrus 1468	under plastic	disease incidence
grapevine 6718	capsicum 5338	Phytophthora palmivora 9141
growth substances, content, Rosa spp. 4707	tomato 5338 plastic bags, coconut 1558	Verticillium dahliae 7182 pest incidence, Sahlbergella singularis
metabolic processes, fruit trees and	pots	2443
plants 2523	economics, onion 3759	planting, spacing, annual report, Ghana
temperature, apple 5713	onion 3759, 6027	7177
Vaccinium spp. 5091	made from plastic films	carnation, flowering 8856
sulphuric acid geranium 6981	tomato 2865 vegetables 2865	coffee annual report, Sri Lanka 3171
liquorice 1457	tomato 4557	artificial, annual report, Rhodesia
temperature, growth substances,	types compared	4829
content, Rosa spp. 4707	endive 5390	nutrition, leaf, analysis 1570
ultrasonics, squash 4446	ornamental plants 5390	pest incidence, Stephanoderes hampei
vernalisation, cauliflower and broccoli	soil amendments, plastic foam 8850 soil blocks	9162 pepper, black, disease incidence, <i>Elsinoë</i>
7644 vernalization	petunia, annual report, Netherlands	piperis 6254
flower	1314	rubber, weed control 9209
sex	tomato 4557	tea
cucumber and gherkin 1198	sex, determination, colorimetric test,	disease incidence, Phomopsis theae
melon (cantaloup and musk)	nutmeg 756	5662 nutrition
virus, control, bean (<i>Phaseolus</i>) diseases	storage plastic bags, cauliflower and broccoli	annual report
175	7638	Kenya 7264
vitamins, Rosa spp. 2990	tomato 2863	Malawi 6454-6455
wafering, vegetables 6061	transport, containers, plastic, vegetables	Sri Lanka 8262
X-rays	4375	weed control, coffee 4858
bean (Phaseolus) 191	treatment Ocimum sanctum leaf extract,	Shade trees establishment, tea 9271
cucumber and gherkin 154 flowering, Catharanthus roseus	Catharanthus roseus 8011	grubbing, tea, annual report, India 1657
8010	paint bands, cacao, annual report,	Shallot
liquorice 7109	Ghana 7177	amino acids, content, bulb 6035
pollen sterility, Catharanthus roseus	Segestidea spp., biological control, coconut	annual report, Belgium 4363
8010	pests 9158 Selenicereus nteranthus flower opening-	carbohydrates, content, bulb 6035 fungicides, interaction, herbicides 1258
seed number per fruit, Catharanthus roseus 8010	Selenicereus pteranthus, flower, opening- closing, rhythms 6201	herbicides herbicides
zinc, vegetables 6078	S. spp., edible fruits 822	injury, DNOC 1258
viability	Selenothrips rubrocinctus, cacao pests,	interaction, fungicides 1258
harvesting, time of, carrot 6113	annual report, Nigeria 4035	as medicinal plants 6035
sugars, content, oil palm, annual report,	Semecarpus anacardium, phenolic	photoperiodism, bulb, ripening 602
Nigeria 9181	compounds 7119	weed control 1258
water, absorption, Rosa spp. 4706	Sempervivum spp. flower, development 8933	Shallot bulb heat treatment 1690
water relations, bean (<i>Phaseolus</i>) 192 Geedling	seed	ripening, photoperiodism 602
development, cotyledon removal, rose	development 8933	Shallot diseases
5478	germination 8933	Botrytis allii, bulb treatment 1258

Shallot diseases contd.	Snowdrop growth substances, endogenous,	Soil contd.
Pseudomonas syringae 2083	leaf, translocation 706	erosion
Shoot	Snowdrop leaf	coffee 3161, 5618
-root relationships	fatty acids	control 3310
apple, annual report, UK 3346	content	fruit trees and plants 3310
growth studies 5676	drought resistance 2963	Pennisetum clandestinum 739
Shorea robusta	flowering, date 2963	tree fruits 8325 tropics
nut	Sodium	Stenotaphrum dimidiatum 300
fatty acids 3090	absorption fertilizers compared, spinach 5903	tea 8269
glycerides 3090 Silene spp., as weeds, grapevine 1904	growth substances, kinetin, bean	direct sown seed, celery 5377
Silicon	(Phaseolus) 2027	herbicide-contaminated soil, grapevine
availability, sugar cane, annual report,	leaf, tissue culture, bean (<i>Phaseolus</i>)	6733
USA 9221	8697	tea 9270
cane, ripening, sugar cane 9265	potassium nutrition, pea 5243	fumigation
deficiency, symptoms, sugar cane 4887	content	carbathion, Meloidogyne spp.,
determination	flower, peach 6631	vegetables 8783
colorimetric	fruit, peach 6631	carbon disulphide
orange 7287	nitrogen nutrition, orange 1478	manganese, content, leaf, avocado
sugar cane 7287	root, soil salinity, pea 8722	8055
sugar cane 3260	determination, atomic absorption	phosphorus absorption, avocado 8055
phosphorus metabolism, sugar cane 7252	spectrophotometry 8290	chloropicrin
Silver, toxicity, cucumber and gherkin 157	leaf analysis	apple, annual report, UK 8318
Sinapsis spp., glycosides 8634 Sipha flava, aerial spraying, sugar cane pests	banana 9131	Armillaria mellea, grapevine 7573
8235	citrus 1484	cucumber and gherkin 1191
Sisal	plant, composition, pea 5243	Fusarium oxysporum, f. lycopersici,
cytology, sterility 6271	potassium nutrition, tea, annual report, Sri	tomato 7795
economics, South Africa 5503	Lanka 8262	injury, avocado 8055
growing, South Africa 5503	toxicity	manganese, content, leaf, avocado
herbicides	plant tolerance	8055
injury	irrigation water, vegetables,	Meloidogyne incognita, grapevine
bromacil 7992	ornamental plants, fruit trees and	7573
diuron 7992	plants 5163	nematode control, tree fruits 5728
monuron 7992	pea 3734	phosphorus absorption, avocado
terbacil 7992	translocation	8055
irrigation, plant anatomy 9008	bean (Phaseolus) 2028	Phytophthora spp., raspberry 5087
stomata, number, irrigation 9008	enzyme activity, root, pumpkin 2778	soil sickness, tree fruits 8381
weed control 6340, 7992	temperature, bean (<i>Phaseolus</i>) 2028 tomato 2126	Xiphinema index, grapevine 7573
Sisal plant	Soil 2126	chloropicrin-methyl bromide mixture,
anatomy environmental factors 9008	aeration 4121	Verticillium dahliae, strawberry 3325
irrigation 9008	amendments, ornamental plants 709	DBCP
Sisal propagation	measurement, annual report, Australia	nematode control, cabbage 5927
bulbils 6271	6480	Phytophthora spp., raspberry 5087
suckers 6271	root, growth, pea 2812	DD
Sitona lineatus, pea pests, annual report,	water table, Vaccinium spp. 6686	injury, avocado 8055
UK 3611	amendments	manganese, content, leaf, avocado
S. spp., bean (Vicia) pests, annual report,	asphalt, tomato 2114	8055
UK 5153	compared, iris 4657	Meloidogyne javanica, passion fruit
Skimmia laureola, leaf, composition 9005	compost, grapevine 5847	7168
Slugs	gypsum, grapevine 1106	nematode control
control, metaldehyde 1329	hydrophobic polystyrene foam,	cabbage 5927
lettuce pests 1971	ornamental plants 709	tree fruits 5728
strawberry pests 107 Small fruits	hydrophyllic urea-formaldehyde-foam resin, ornamental plants 709	phosphorus absorption, avocado 8055 ·
annual report	Hygromull 865	Phytophthora citrophthora, citrus
Canada 7488	mushroom compost, nutrient	4787
German Federal Republic 5094	availability, black currant 6673	P. parasitica, citrus 4787
book 2666	peat compost, grapevine 5850	P. spp., raspberry 5087
diseases	perlite, tomato 2114	Pratylenchus vulnus, peach 1021
annual report, German Federal	plastic foam, ornamental plants 709	Tylenchulus semipenetrans, citrus
Republic 6669	polystyrene, nutrient availability,	4787
Australia 6518	vegetables 117	DD-MENCS, Fusarium oxysporum, f.
frost, injury, critical temperatures, flower,	sawdust	lycopersici, tomato 4570
development 4158	tomato 1285, 2114	Di-Trapex
pests	weed control, blueberry 8497	disease control, bedding plants 2206
annual report, German Federal Republic 6669	urea formaldehyde foam resins, nutrient availability, vegetables 117	temperature, annual report, Netherlands 4604
Australia 6518	vermiculite, tomato 2114	Ditrapex
plant protection, book 2671	water-soluble polymers, ornamental	nematode control, tree fruits 5728
storage, pre-cooling, mobile unit 2672	plants 709	root growth, tree fruits 5728
water relations, study technique,	wood chips, grapevine 1106	Verticillium dahliae, strawberry
phosphorus-32 beta gauge 8518	compaction	3325
Snails	disease incidence, bean (Phaseolus)	1,3-D
black currant pests, annual report, UK	181, 5241	Armillaria mellea, grapevine 7573
1856	root, growth, pea 2053-2054	Meloidogyne incognita, grapevine
scavenger of, endogenous fungi, apple	seedling, emergence, vegetables 5238	7573
1752 Snow	sugar cane 411	Phytophthora spp., raspberry 5087
Snow	conservation	Xiphinema index, grapevine 5133,
potential water reserve, grapevine	amendments, lawns and sports turf 2969	7573 FDR Meloidogune javanica passion
8541	cover crops	EDB, Meloidogyne javanica, passion fruit 7168
temperature, pruning and training,	coffee 3161, 5618	ethylene dibromide
protected cultivation, lemon 3110	tea 8269	injury, avocado 8055
Snowdrop	mulching, tea 8269	phosphorus absorption, avocado
drought, resistance, leaf, composition	tea 9270	8055
2963	cultivation	methyl bromide
flowering, date, leaf, composition 2963	depth, sugar cane 9230	Armillaria mellea, grapevine 7573
irradiation	machines	bromine
ionizing	fruit trees and plants 2511	content
injury 737	grapevine 1908	fruit, tomato 8789
mutation induction 737	methods compared, grapevine 5115	leaf, tomato 8789

		**
oil contd.	Soil contd.	Soil contd.
fumigation contd.	moisture contd.	uniformity restoration, post-experiment,
methyl bromide contd.	fruit quality, mandarin and tangerine	orange 3994
cucumber and gherkin 1191	8070	water table, Vaccinium spp. 6686
annual report, Belgium 5148		
	intercropping, apple 2560	waterlogging, disorder incidence, cocont
disease control	nutrient absorption, turnip 5926	9152
bedding plants 2206	oxygen concentration	Soilless culture
vegetables 8651	plant amino acids, content, disease	Asparagus sprengerii 306
Fusarium oxysporum, f. lycopersici,	incidence, orange 2393	capsicum, annual report, Israel 3608
tomato 7795	plant composition, citrus 2383	citrus, annual report, Australia 1466
Heterodora rostochiensis, tomato	root, growth, pea 2812	container volume, tomato 682
6089	pH	equipment 1676-1677
injury	alkaline 3299	forcing, chicory 5177
carnation 5394, 6139	leaf, composition, apple 1743	iron, sources, vegetables 2845
rose 5394	limestone, sources compared, citrus	media 2015
Meloidogyne incognita, grapevine	3996	anthurium 8875
7573		capsicum 236
	measurement, automatic, vegetables,	
M. javanica, passion fruit 7168	annual report, UK 1934	lettuce, annual report, Netherlands
methods compared, citrus 6348	trees and shrubs, suitability 2274	1132
Peronospora anemones, anemone	potting	melon (cantaloup and musk) 6815
2221	temperature	sawdust, tomato 1285
Phytophthora spp., raspberry 5087	seed, germination, tomato 678	nitrogen, grapevine 5852
plant composition, bromine,	seedling growth, tomato 678	nutrient solution
vegetables 1953	salinity	addition
residues	amino acids, biosynthesis, pea 2815	algae, Anabaena cylindrica,
ornamental plants 5394	chlorine, ornamental plants, ground	strawberry 2701
parsley, annual report, German	cover plants 2161	humates, tomato 8774
Federal Republic 7070	damage, calcium nutrition celosia 727	concentration
plant, lettuce 2755	enzyme activity, pea 2815	bean (Phaseolus) 5979
plant, lettuce 2755 soil, lettuce 2755	iron, absorption, vegetables 6912	carnation 5401
vegetables 1953	leaf, composition, apple 1743	grapevine 6749
seedling growth, citrus 7132	manganese, absorption, vegetables	tomato 682
Xiphinema index, grapevine 5133,	6912	vegetables 5215
7573	organic acids, metabolism, leaf	melon (cantaloup and musk) 6815
methyl isothiocyanate, Peronospora	senescence, mesembryanthemum	
	2941	mineral fertilizers, vegetables 6075
anemones, anemone 2221		rose 2298
nematodes, nurseries, tea 431	peach 5765	salinity
Phomopsis sclerotioides, cucumber and	plant salt translocation 1673	squash 6912
gherkin 1191	plant tolerance	tomato 6912
propargyl bromide, <i>Phytophthora</i> spp.,	carrot 8812	nutritional studies
raspberry 5087	grapevine 8554	anthurium 8875
propylene oxide, phosphorus absorption,	ground cover plants 2161	blueberry 4319
avocado 8055	ornamental plants 2161	coffee 6405
thiazone, <i>Meloidogyne</i> spp., vegetables	pea 3734	equipment, grapevine 5121
7801	vegetables 2740	olive 4027
Vapam	sodium, ornamental plants, ground	Soxhlet glassware technique 4921
Botrytis tulipae, tulip 2959	cover plants 2161	plant anatomy, carrot 6938
Peronospora anemones, anemone	sodium chloride, pea 210	propagation, hop 5504
2221	sodium sulphate, pea 210	spice plants 5487
Sclerotinia bulborum, tulip 2959	tolerance, peach 509	vegetables, annual report, France 3605
various	zinc, absorption, vegetables 6912	Solanaceae, chromosome numbers 1319
nematode control, tree fruits, annual	sampling, methods, microvolumes 9	Solanaceae
report, Rhodesia 4149	sickness, steaming, temperature, apple	fruit species, American tropics 9123
	6561–6562	growing, American tropics 9123
pre-planting, apple, annual report,	steaming	nomenclature 9123
UK 8317		value 9123
vegetables, annual report, Netherlands	frequency, ammonium toxicity,	
1135	chrysanthemum 1325	Solanum aviculare, form variation 5534
Vorlex	manganese nutrition, melon (cantaloup	S. dulcamara
annual report, USA 4368	and musk) 1998	alkaloids 7114
injury, strawberry 8514	vegetables, annual report, Netherlands	biosynthesis 7114
fungistasis 3316	1135	content
heating	sterilization	irrigation 8040
chicory, annual report, Belgium 5906	chemicals, virus control, peach 1824	seed treatment 7113
flower, quality, carnation 5402	equipment, mobile grid 2488	amino acids, content, irrigation 8040
lawns and sports turf 7920	methyl bromide, greenhouse crops,	irrigation
systems, lawns and sports turf 3889	annual report, UK 5884	alkaloids, content 8040
vegetables, annual report, Netherlands	steam	amino acids, content 8040
1135	disease control	pollen structure 5535
micro-organisms	cyclamen 3866	seed
amendments, Verticillium dahliae,	tomato 7795	treatment
strawberry soil 110	vegetables 8651	light
azalea, annual report, Belgium 5386	leaf, composition, tomato 240	red, alkaloids, content 7113
control, root exudate, onion,	virus control, peach 1824	white, alkaloids, content 7113
Verticillium dahliae 2085	temperature	S. eryanthum, alkaloids 8041
fungicides, apple 8391	citrus, annual report, Australia 9074	S. incanum, alkaloids, content 6314
monoculture, capsicum 237	containers, holly 6214	S. khasianum
replanting, apple 467, 6570	frost injury	diseases, mosaic 3086
		mutants
rhisosphere, radish 618	apple 2554 cherry 2554	alkaloids 9059
rhizosphere, radish 617		
seedling, growth, citrus 7132	strawberry 2554	curved spines 9059
moisture	irrigation, banana 4037	induction, irradiation, gamma rays
bulbs, annual report, Netherlands	measurement 4127	9059
2219	mulching	as virus indicator plants 3966
chlorosis, apple 8382	chicory 5176	S. laciniatum
conservation, asphalt barriers, sugar	holly 6214	alkaloids
cane 410	tea 3266	content
content	nutrient absorption, pineapple, report,	fruit, seasonal variations 8042
root nodule, nitrogen-fixing activity,	USA 6382	leaf, seasonal variations 8043
bean (Vicia) 2040	plant nutrition, vegetables 6826	carbohydrates
trees and shrubs, suitability 2274	root damage, apple 2553	content
flower, size, Zantedeschia spp. 2950	root development, trees and shrubs	fruit, seasonal variations 8042
flowering, mandarin and tangerine	3925	leaf, seasonal variations 8043
8070	root growth, trees and shrubs 3925	climate 6315
0070	500 8.0 11, 11000 4114 0111400 0720	

Solanum laciniatum contd.	Sphaerotheca fuliginea contd.	Spinach contd.
form variation 5534	varietal resistance	chloroplast
irrigation 6315	cucumber and gherkin diseases 1183,	number
pests, Agrotis segetum 5536 soil, types 6315	7673 strawberry diseases 8504	light 4394 temperature 4394
S. nigrum	S. humuli	size, temperature 4394
growing 7823	annual report, German Federal Republic	enzyme activity
as weeds, bean (Phaseolus) 7702	7087	leaf
S. pseudomeum, steroids, content, fruit	control, hop diseases 6278 hop diseases 4748	determination 5897 light 4396
9058 S. spp.	host-parasite relationships, hop diseases,	plant sex affects 129
as a rootstock, eggplant 4545	annual report, UK 3954	trace elements 2747
as weeds	Kalanchoe spp. diseases 3904	enzymes
bean (<i>Phaseolus</i>) 2017 essential oil plants 2495	Lagenaria spp., diseases 6823 Luffa spp., diseases 6823	extraction 8593 leaf 1959, 4395, 5895
fruit trees and plants 2495	resistance, breeding and selection, hop	growth chambers
onion 5305	diseases, annual report, UK 3954	leaf production 8617
vetiver 2495	strawberry diseases 3550	plant composition 8617
S. torvum diseases, Colletotrichum spp., eggplant	annual report, Canada 2669 S. macularis	harvesting, mechanical, planting, spacing 4391
6051	protected cultivation, strawberry diseases	herbicides
as a rootstock, eggplant 4545, 5329	1878	injury
S. xanthocarpum	resistance, strawberry, annual report, UK	cycloate 7618
alkaloids 4773 coumarins 4773	1856 small fruits, diseases, annual report, Irish	phenmedipham 7618 pyrazone 7618
glycosides 4773	Republic 1857	insecticides
steroids 4774	strawberry diseases 1072, 4324	residues
Solar radiation	Sphaerotheca mors-uvae	arsenic 3329
herbicides absorption, pea 5283	black currant diseases 3520, 5731, 6674 annual report	plant, Perthane 2500 vamidothion 4393
translocation, pea 5283	German Federal Republic 6669	iron, determination, ferrozine 3303
reflection, apple 2557	UK 1856, 3514, 7489	lead, residues 4936
Solidago virga-aurea, essential oil, content	control	light
7983 Sonchus oleraceus, as weeds, lettuce 7631	black currant diseases 7499 annual report, German Federal	chloroplast, number 4394 intensity
Sophora angustifolia, flavonoids 6245	Republic 8481	ascorbic acid, content 607
S. japonica, varieties 3906	gooseberry diseases 5731	leaf, number 607
Sorbus aucuparia	resistance	plant composition 2903
fruit composition 2665	black currant diseases 6675 breeding and selection, black currant	nitrogen, metabolism 2748 nitrates
yield, forecasting 1045	diseases 7492	content
S. spp.	small fruits, diseases, annual report, UK	nitrogen nutrition 2746
fluorine, toxicity, plant tolerance 7845	3515	temperature 2746
growth, habit, annual report, German Federal Republic 7844	varietal resistance, black currant diseases 6676	determination, spectrophotometric 7619
rootstocks, annual report, Netherlands	Sphaerotheca pannosa	nitrite, toxicity 5893
4604	control, rose diseases 5476, 7848	nutritional value, amino acids 3628
sulphur dioxide, injury, plant resistance	host morphology, peach diseases 8458	photoperiodism
7845 as windbreaks 4294	f. rosae, rose diseases, annual report, UK 6128	enzyme activity 129 nitrate accumulation 1144
Sorghum halepense	rose diseases 6229	planting, spacing 4391
as weeds	annual report	proteins
grapevine 6729	Denmark 3298	content, water deficiency 3628
orange 8066 sugar cane 8205, 9237–9239	UK 8838 varietal resistance, rose diseases 4709,	metabolism, trace elements 2747 nutrients, content, herbicides 4485
tomato 7775	8950	soilless culture 4379
S. spp.	S. spp.	sterols, content 8595
as weeds	control 8305	temperature
citrus 6338 peach 4252	peach diseases 513 rose diseases	chloroplast number 4394
S. vulgare, as a cover crop, peach 7452	annual report	size 4394
South Africa	Netherlands 6127	nitrate accumulation 2746
chicory, growing, economics 5640	UK 4606	tissue culture
pineapple, growing, economics 5640 sisal	strawberry diseases, annual report, Belgium 1060	chloroplasts 128 leaf, chloroplast, number 4394
economics 5503	varietal resistance, rose diseases 5473	vitamins, content, nitrogen nutrition 865
growing 5503	Sphenophorus venatis vestita, Zoysia spp.,	water relations
Sparganothis pilleriana, control, cultural methods, tea pests 3279	pests 4672 Spice plants	plant amino acids, content 3628
Spartium junceum, essential oil, content	amino acids, content 449	proteins, content 3628
7983	bibliography 7067	weed control 7617-7618, 8588
Spathiphyllum spp., diseases, dasheen mosaic	essential oil 8973	annual report
2975 Spermopora subulata, lawns and sports turf,	Italy 6244 products 8973	Canada 2734 New Zealand 5152
diseases, annual report, Canada 3882	review 8973	Avena spp., annual report, German
Sphaceloma necator, incidence, raspberry	root, anatomy 3172	Federal Republic 7598
diseases, annual report, German Federal	seed, oil, biosynthesis 3336	winter hardiness, sugars, content 7662
Republic 6669 S. persea, avocado diseases, annual report,	Spilocaea eriobotryae, loquat diseases 815 Spilonota ocellana, population studies, apple	Spinach beet growing, peat, nutrition 5904
USA 2375	pests 956	insecticides, residues, plant, lead arsenate
Sphaerotheca fuliginea	Spinach	1951
control, cucumber and gherkin diseases	amino acids, content, water deficiency	light, nitrogen, metabolism 2748
6822, 7388, 8482 cucumber and gherkin diseases 160,	3628 annual report	mulching, plastic 4378 nutritional value, vitamins 8596
3319, 3685, 5954	Belgium 4363	photosynthesis, soil moisture 6092
annual report, Belgium 8578	UK 1938	Spinach beet leaf
marrow diseases 6821	ascorbic acid	biochemistry 5174
melon (cantaloup and musk) diseases 5221	content light, intensity 607	nitrogen, metabolism, light 2748 Spinach beet nutrition
okra diseases 160	nitrogen nutrition 2903	fertilizers
seed treatment	bolting 127	liquid 5904
cucumber and gherkin diseases 5955 pumpkin diseases 6861	chlorophyll, metabolism, enzyme activity 4396	slow-release 5904
Panipan diodeoco 0001	7370	nitrogen, sources, compared 5904

Subject Index		110
Spinach beet soil, cultivation 4378 Spinach beet varieties, India 8596	Spraying contd. equipment	Squash pests Acalymma vittatum, host preference
Spinach diseases Cladosporium spp., seed-borne 6785	annual report, UK 2487 atomizers 4933	Aphis gossypii, seed, treatment 630
cucumber mosaic 3629 Penicillium spp., seed-borne 6785	duster, grapevine 5135 hop 3045	Bemisia tabaci, seed, treatment 630 Diabrotica undecimpunctata, host
Peronospora farinosa	hydraulic sprayer, coffee 4058	preference 2772
annual report, German Federal Republic 7599	low-volume, grapevine 5136 mist blower, grapevine 5135	Diaphania nitidalis, host preference 277 Meloidogyne spp., annual report, USA
host-pathogen relationships 1958	performance 891	1935
Phyllosticta spinacea, varietal resistance	rubber 8185	Tetranychus arabicus, seed, treatment 630
7616 Phytophthora cryptogea, annual report,	tree trunk spray boom 3338 types compared, citrus 3137	T. cinnabarinus, seed, treatment 630
German Federal Republic 7599	low volume	Thrips tabaci, seed, treatment 630 Squash root, cation exchange capacity
Verticillium dahliae, seed-borne 6785 Spinach leaf	apple, annual report, German Federal Republic 7309	4144
composition 3675	fruit trees and plants, annual report,	Squash rootstocks melon (cantaloup and musk) 5960
nitrates, content 1957 nitrogen, metabolism, light 2748	Belgium 4942 materials, foliar absorption, review 6498	-scion relationships
Spinach Leaf, number, light, intensity 607	methods compared	cell sap, composition, movement 596 water relations 5960
Spinach leaf organic acids, content 8594	grapevine 1917 hop 5512	Squash seed
stomata, size, tetraploid plants 125	precipitants, residues, orange 9086	germination enzyme activity 5964
sugars, content, seasonal variations 7662	programmes, apple 7371	phytochrome metabolism 5208
Spinach nutrition boron 126	review 2504 stickers, types compared 4929	proteins 8642 treatment
calcium 126	ULV and high volume compared, apple	acaracides 630
absorption, fertilizers compared 5903 fertilizers, organic and inorganic	473 Squash	growth substances, cycloheximide 5208
compared 5903 iron, absorption, fertilizers compared	annual report Italy 6771	insecticides 630 light, red and far red 5208
5903	USA 600, 4368	ultrasonics 4446
magnesium 126 manganese 126	chlorophyll, degradation, pumpkin mosaic virus 1259	Squash soil micro-organisms 2774
nitrogen 126, 1950, 2903, 4391	cytology 1990	salinity
nitrate accumulation 1957, 2746 photoperiodism 1144	enzyme activity leaf 7691	iron, absorption 6912 manganese, absorption 6912
sex expression 127	seed, germination 5964	zinc, absorption 6912
sources, compared 119 trace elements, content 865	varietal differences 164 growing, Hungary 7672	Squash varieties 4371 disease resistance, bean yellow mosaic
vitamins, content 865	growth chambers, environmental studies	7684
phosphorus 126, 2739 absorption, fertilizers compared 5903	6825 herbicides, injury, naptalam 624	Pusa Alankar 6808 Sri Lanka, oil palm, growing 9183
potassium 126, 2739	phloem, cytology 7688	Stachylidium theobromae, banana diseases
chloroplast activity 128 sodium, absorption, fertilizers compared	planting, spacing, annual report, Rhodesia 4364	1541 Staking
5903	proteins	Lannea grandis trees, grapevine 6744
Spinach plant composition	distribution, phloem cells 7688 structure, seed 8642	methods compared, grapevine 6744 trees and shrubs 2979
calcium nutrition 126	soilless culture, nutrient solution, salinity 6912	wire mesh cages, tomato 2868
magnesium nutrition 126 nitrogen nutrition 126, 2903	sugars, metabolism 3686	Staphylea spp., pollen, germination, boron nutrition 3000
organic compounds, nitrogen, sources	temperature, leaf, environmental factors 6825	S. spp. nutrition, boron, pollen germination 3000
potassium nutrition 126	translocation, anaerobic conditions 8658	Statice
sex, enzyme activity 129 Spinach seed	as virus indicator plants 3473 weed control 623–624	annual report Canada 2910
treatment	Squash diseases	USA 1441, 6129, 8834
annual report, German Federal Republic 7597	bean yellow mosaic symptoms 7684	growing, under cloth-shaded structures 8860
fungicides 3622, 6785	varietal resistance 7684	herbicides, responses 8852
Spinach varieties 4391 disease resistance, <i>Phyllosticta spinacea</i>	Erysiphe cichoracearum 6819 Pseudoperonospora cubensis, annual	pollen, studies 6988 temperature
7616	report, USA 8585	flower bud, initiation 2940
ozone, injury, resistance 4392 USSR 1942	pumpkin mosaic virus, chlorophyll, degradation 1259	growth 2940 weed control 8852
Spinacia spp., root, cation exchange capacity 4144	Squash flower bud initiation	Statice diseases Colletotrichum spp. 6163
Spiraea, pollen, germination, boron nutrition	growth substances	Sclerotium rolfsii 2937
3000 Spiraea growth substances, retardants,	ethephon 1201 NAA 1201	turnip mosaic 2936 Statice flower
chlormequat 6212	development 2007	anthocyanins, content 8877
Spiraea nutrition, boron, pollen germination 3000	opening, mechanism 2007 sex	biology 6988 bud initiation, temperature 2940
Spodoptera eridania, tomato pests, annual	growth substances	colour 8877
report, USA 8585 S. exiqua, tomato pests, annual report, USA	ethephon 1201 NAA 1201	flavonoids, content 8877 pigments, content 8877
8585	Squash fruit	Statice pests, aphids, virus vectors, turnip
S. frugiperda, biological control, cabbage pests 4427	number, seed treatment, ultrasonics 4446 size, seed treatment, ultrasonics 4446	mosaic 2936 Statistical
S. littoralis, control, artichoke, globe, pests	Squash growth substances	analysis Boundary Line, crop yields 1678
5905 S. mauritia, lawns and sports turf, pests	endogenous, flower, IAA 2007 flower	disease assessment 4126
5451	sex ethephon 1201	methods 8287 design of trials 3301
Spray, testing, equipment 8 Spraying	NAA 1201	cacao 9137
aerial coffee 3206	Squash leaf, temperature, environmental factors 6825	gerbera 724 grapevine 2706
cucumber and gherkin 1195	Squash nutrition	growth chambers 4129
general, deposits, tea 4111 insecticides, sugar cane 4893	iron, absorption, soil salinity 6912 manganese, absorption, soil salinity 6912	mandarin and tangerine 361 plot size, bean (<i>Phaseolus</i>) 7695
tomato 2876	zinc, absorption, soil salinity 6912	sugar cane 8190

6659 grapevine 8573 plants incidence, peach diseases 7451 orange 5571 carbohydrates, metabolism, rhuba	Statistical contd.	Stereum contd.	Stone fruits
Foruit apple 7330 coffee 8146 choopslyll, content, plant development 6190 choopslyll, content, plant 6190		S. rugosum, chestnut (Castanea) diseases	
spipe 7330 coffee 8146 last last last last last last last last			
coffice \$146 coffi			
leaf banana 9131 coffee 8146 coffee 8146 science, agricultural, book 3293 school, coffee 8145 school, commut park 914 school, commut park 914 school, commut park 914 school, commut park 9149 school, commut park 9149 school, commut parks 9149 school, commut parks 9149 school, commut parks 9149 school, commut parks 9149 school, commut parks 9149 school, commut parks 9149 school, commut parks 9149 schoo		6190	
banana 9131 conflee 3146 prof. turn 388) sections, lawn and sports turn 388) sections, spice 3146 sport studies, leaf, size, measurement, legames 7 studings, leaf, size, measurement, legames 7 spice, size, s		pigments, content, plant development	
coffee \$146 root, lawra and sports turf 3883 shoot, ceffee \$146 root, lawra and sports turf 3883 shoot, lawra and sports turf 38842 spinach \$295 generic points \$1426 shoot, lawra and sports turf \$1824 spinach \$295 generic points \$1426 shoot, lawra and sports turf \$1824 spinach \$295 generic points \$1426 shoot, lawra and sports turf \$1824 spinach \$295 generic points \$1426 shoot, lawra and sports turf \$1824 spinach \$295 shoot, \$126 shoot, \$126 shoot, \$126 shoot, \$126 shoot, \$126 shoot, \$126 shoot, \$126 shoot, \$126 shoot, \$126 shoot, \$126 shoot, \$126 shoot, \$126			
schoot, coffee \$146 science, agricultural, book \$295 technique, ledf, size, measurement, techniques disease assessment 4126 growth studies, apple \$213 multi-marked model, decorder USA 790 yield, estimation, caeao 1547 the strate of the studies of the strate of the studies of		Steroids, content, fruit, Solanum	Bacillus mesentericum 6609
seience, agricultural, book 3295 technique, lacif, size, measurement, legumes 7 technique lacif, size, measurement, legumes 7 technique lacif, size, measurement, legumes 7 technique lacif, size, measurement, legumes 7 technique lacif, size, measurement, legumes 7 technique lacif, size, measurement, legumes 7 technique lacif, size, measurement, legumes 7 technique lacif, size, measurement, legumes 7 technique lacif, size, measurement, legumes 7 technique lacif, size, measurement, legumes 7 technique lacif, size, legumes 1609 tenthosyanita lacif, size, legumes 1609 tenthosyanit	root, lawns and sports turf 3883		
seed, stone fruits \$424 sprince hispides \$457 feeliniques leaf size, measurement, legimes 7 feeliniques decelopment, apple 695 spinotographic surveys, annual report, USA 451, 1706 Stock discosses annual report, USA 451, 1706 Stock discosses annual report, USA 451, 1706 Stock discosses annual report, USA 451, 1706 Stock discosses annual report, USA 451, 1706 Stock discosses an weed strawberry \$509-8510 str			
Legames 7 Lechniques disease assessment 4126 disease assessment 4126 growth studies, apple 8371 mathematical model, decrease photographic surveys, annual report, USA 790 Lyda, estimation, caeao 1547 Statistics Department of Agriculture and Fisheries for Scotland 2485 FAO 1672 Stellaris media Straberry 8509-8510 sugar cane 8204 wegstables 7648 statistics weds astrawberry 8509-8510 sugar cane 8204 wegstables 7648 statistics weds astrawberry 8509-8510 sugar cane 8204 wegstables 7648 statistics weds astrawberry 8509-8510 sugar cane 8204 wegstables 7648 statistics weds astrawberry 8509-8510 sugar cane 8204 wegstables 7648 statistics weds astrawberry 8509-8510 sugar cane 8204 wegstables 7648 statistics weds astrawberry 8509-8510 sugar cane 8204 wegstables 7648 statistics weds astrawberry 8509-8510 sugar cane 8204 wegstables 7648 statistics weds astrawberry 8509-8510 sugar cane 8204 wegstables 7648 statistics weds astrawberry 8509-8510 sugar cane 8204 wegstables 7648 statistics weds astrawberry 8509-8510 sugar cane 8204 wegstables 7648 statistics weds astrawberry 8509-8510 sugar cane 8204 wegstables 7648 statistics weds astrawberry 8509-8510 sugar cane 8204 section of the statistics weds astrawberry 8509-8510 sugar cane 8204 section of the statistics weds astrawberry 8509-8510 sugar cane 8204 section of the statistics weds astrawberry 8509-8510 sugar cane 8204 section of the statistics weds astrawberry 8509-8510 sugar cane 8204 section of the statistics were statistics with the statistics were statistics with the statistics were statistics with the statistics were statistics, flower in the statistics with the statistics were statistics, flower in the statistics with the statistics with the statistics with the statistics with the statistics with the statistics with the statistics with the statistics with the statistics with the statistics with the statistics with the statistics with the statistics with the statistics with the statistics with the statistics with the statistics with the statistics with the statistics			
descase assessment 4126 growth studies, apple 8271 mathematical model, disords photographic surveys, annual report, USA 790 Stellation and Fisheries for Scotland 2485 FAO 1672 Stellation and Fisheries for Scotland 2485 Stock growth and fisheries for Scotland 2485 Stock growth reduction, choloromegate for Scotland 2485 Stock growth reduction, choloromegate for Scotland 2485 Stock growth reduction, choloromegate for Scotland 2485 St			
disease assessment 4126 growth studies, apple 8371 mathematical model, disorder decognoutia, apple 4213 Signatilis matchin, apple 4217 Statistics USA 700 yield, estimation, canao 1547 Statistics The Factor of Agriculture and Fisheries for Scotland 2485 FAO 1672 Stellaris methia Strawberry 859-8510 sugar cane 8204 vegetables 7648 Stellaris spp. **Scotlaris methia Strawberry 859-8510 sugar cane 8204 vegetables 7648 Stellaris spp. **Scotlaris methia Strawberry 859-8510 sugar cane 8204 vegetables 7648 Stellaris spp. **Scotlaris methia Strawberry 859-8510 sugar cane 8204 vegetables 7648 Stellaris spp. **Scotlaris spp. **Scotlaris methia Strawberry 859-8510 sugar cane 8204 vegetables 7648 Stellaris spp. **Scotlaris spp. **Scotlaris methia Strawberry 859-8510 sugar cane 8204 vegetables 7648 Stellaris spp. **Scotlaris spp. **Scotlaris spp. **Scotlaris methia Strawberry 859-8510 sugar cane 8204 vegetables 7648 Stellaris spp. **Scotlaris spp. **Scotlaris spp. **Scotlaris methia Strawberry 859-8510 sugar cane 8204 vegetables 7648 Stellaris spp. **Scotlaris spp. **Scotlaris spp. **Scotlaris methia Strawberry 859-8510 sugar cane 8204 vegetables 7648 Stellaris spp. **Scotlaris spp. **Scotlaris spp. **Scotlaris methia Scotlaris spp. **Scotlaris spp. **Scotlaris methia Scotlaris spp. **Scotlaris methia Scotlaris spp. **Scotlaris methia Scotlaris spp. **Scotlaris spp. *			
growth studies, apple disorder """ default and disorder "" default and disorder "" (USA 79) Statistics "" (DA) 1672 Statistics "" (DA) 1672 Statistics "" (DA) 1672 Statistics "" (DA) 1673 Statistics "" (DA) 1674 Statistics "" (DA) 1675 Statistics "" (DA) 1674 Statistics "" (DA) 1675 Statistics "" (DA) 1675 Statistics "" (DA) 1674 Statistics "" (DA) 1675			
development apple 675 statistics USA 790 yes, annual report, USA 790 yeld, estimation, casco 1547 Statistics Department of Agriculture and Department of Agr	growth studies, apple 8371		
Development, apple 6.995 photographis surveys, annual report, yield, estimation, cacao 1547 Statistics such circulary of the properties o			
Stock seed, sover planting sundarists parasits of Sections markinoses and seeds of Sections markinose and seeds of Sections markinose and seeds of Sections markinose and seeds of Sections markinose and seeds of Sections and Se			
syled, estimation, cacao 1547 Statistics horticultural Department of Agriculture and Department of Agriculture and Department of Agriculture and Department of Agriculture and Department of Agriculture and Department of Agriculture and Department of Agriculture and Statistics of School 1627 FAO 1672 Stellaris media as weeds strawberry \$508-8510 weeds attrawberry \$508-8510 weeds carbog 1891, 675-8 weeds carbog 1891, 675-9 weeds carbog 1891, 675-9 weeds carbog 1891, 675-9 weeds carbog 1891, 675-9 weeds carbog 1891, 675-9 weeds carbog 1891, 675-9 weeds of the School of Scho			
Statistics honticultural Department of Agriculture and Tybelteries for Scolland 2485 growing, straw bales 1142 Stock diseases Statements as weeds as weeds as weeds cabbage 1981, 6795 grapevine 1904, 6730 Stemphylium allif, fungicidal properties, borryourn carrol diseases 2139 Gardinary fruit storage, tomato diseases 1170 Stemphylium allif, fungicidal properties, borryourn carrol diseases 2139 fruit storage, tomato diseases 6936 S. consortials, fruit storage, tomato diseases 588 S. solani cases 6643 cabbage 1981, 6795 grapevine 1904, 6730 Stemphylium allif, fungicidal properties, botheryourn carrol diseases 6143 capsicum diseases 6643 cabbage 1981, 6795 grapevine 1904, 6730 Stemphylium allif, fungicidal properties, botheryourn carrol diseases 6143 capsicum diseases 6648 capsicum classes 6648 capsicum diseases 6748 capsicum diseases 6740 ca			
Department of Agriculture and Episheries for Scotland 2485 FAO 1672 Fisheries for Scotland 2485 FAO 1672 Fisheries for Scotland 2485 Fisheries flower stem length 4645 Fisheries flower stem l			
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control, coconut pests 9159 vectors, root (wilt), coconut pests 6402 Stephanoderes hampei coffee pests, annual report, Nigeria 4035 shade, coffee pests 9162 Stephanotis spp., growing, in pots, annual report, Netherlands 6127 Stereum purpureum apple diseases 8392 biological control plum diseases 8476 Trichoderma viride, plum diseases 6659 incidence, peach 7444 mumber drought resistance, peach 7444 light, intensity, bean (Phaseolus) 1 ight, intensity, bean (P			
Stephanoderes hampei coffee pests, annual report, Nigeria 4035 shade, coffee pests 9162 Stephanotis spp., growing, in pots, annual report, Netherlands 6127 Sterculia spp., planting, WANE system, roadside plants 3908 Stereum purpureum apple diseases 8392 biological control plum diseases 8476 Trichoderma viride, plum diseases 6659 incidence, peach diseases 7451 irrigation, sisal 9008 light, intensity, bean (Phaseolus) 3715 taxonomy, lily-of-the-valley 6188 varietal differences, grapevine 6715 physiological studies, Tradescantia spp., annual report, Australia 6480 potassium, accumulation, bean (Vicia) 5998 size drought resistance, peach 7444 tetraploid plants, spinach 125 structure 5494 grapevine 8573 orange 5571 pear 1800 electricity consumption, fruit, annua report, German Federal Republic 7310 fruit enzyme activity apple 6592, 7412 pear 4284 herbaceous plants, annual report, Netherlands 4604 hypobaric, grapefruit 8098 organic acids, content, capsicum 4 plants carbohydrates, metabolism, rhuba	control, coconut pests 9159		
coffee pests, annual report, Nigeria 4035 shade, coffee pests 9162 Stephanotis spp., growing, in pots, annual report, Netherlands 6127 Sterculia spp., planting, WANE system, roadside plants 3908 Stereum purpureum apple diseases 8392 biological control plum diseases 8476 Trichoderma viride, plum diseases 6659 incidence, peach diseases 7451 light, intensity, bean (Phaseolus) 3715 taxonomy, lily-of-the-valley 6188 varietal differences, grapevine 6715 physiological studies, Tradescantia spp., annual report, Australia 6480 potassium, accumulation, bean (Vicia) 5998 size drought resistance, peach 7444 tetraploid plants, spinach 125 structure 5494 grapevine 8573 orange 5571 electricity consumption, fruit, annua report, German Federal Republic report, 7310 fruit enzyme activity apple 6592, 7412 pear 4284 herbaceous plants, annual report, Netherlands 4604 hypobaric, grapefruit 8098 organic acids, content, capsicum 4 plants carbohydrates, metabolism, rhuba			
shade, coffee pests 9162 Stephanotis spp., growing, in pots, annual report, Netherlands 6127 Sterculia spp., planting, WANE system, roadside plants 3908 Stereum purpureum apple diseases 8392 biological control plum diseases 8476 Trichoderma viride, plum diseases 6659 incidence, peach diseases 7451 taxonomy, lily-of-the-valley 6188 varietal differences, grapevine 6715 physiological studies, Tradescantia spp., annual report, Australia 6480 potassium, accumulation, bean (Vicia) 5998 size drought resistance, peach 7444 tetraploid plants, spinach 125 structure 5494 grapevine 8573 orange 5571 report, German Federal Republic 7310 fruit enzyme activity apple 6592, 7412 pear 4284 herbaceous plants, annual report, Netherlands 4604 hypobaric, grapefruit 8098 organic acids, content, capsicum 4 plants carbohydrates, metabolism, rhuba			
Stephanotis spp., growing, in pots, annual report, Netherlands 6127 physiological studies, Tradescantia spp., annual report, Australia 6480 potassium, accumulation, bean (Vicia) apple diseases 8392 size biological control plum diseases 8476 tetraploid plants, spinach 125 plum diseases 8476 Trichoderma viride, plum diseases 6659 incidence, peach diseases 7451 variety or spinach 125 plants carbohydrates, metabolism, rhuba			
report, Netherlands 6127 Sterculia spp., planting, WANE system, roadside plants 3908 Stereum purpureum apple diseases 8392 biological control plum diseases 8476 Trichoderma viride, plum diseases 6659 incidence, peach diseases 7451 Trichoder, peach diseases 7451 physiological studies, Tradescantia spp., annual report, Australia 6480 potassium, accumulation, bean (Vicia) potassium, accumulation, bean (Vicia) potassium, accumulation, bean (Vicia) potassium, accumulation, bean (Vicia) pear 4284 herbaceous plants, annual report, Netherlands 4604 hypobaric, grapefruit 8098 organic acids, content, capsicum 4 plants carbohydrates, metabolism, rhuba			
Sterculia spp., planting, WANE system, roadside plants 3908 potassium, accumulation, bean (Vicia) apple 6592, 7412 Stereum purpureum apple diseases 8392 size biological control plum diseases 8476 tetraploid plants, spinach 125 hypobaric, grapefruit 8098 Trichoderma viride, plum diseases 7451 grapevine 8573 plants incidence, peach diseases 7451 orange 5571 enabled with the potassium, accumulation, bean (Vicia) apple 6592, 7412 apple 6592, 7412 apple 6592, 7412 pear 4284 herbaceous plants, annual report, Netherlands 4604 hypobaric, grapefruit 8098 organic acids, content, capsicum 4 plants carbohydrates, metabolism, rhuba	report, Netherlands 6127		
Stereum purpureum apple diseases 8392 size biological control plum diseases 8476 Trichoderma viride, plum diseases 6659 incidence, peach diseases 7451 Servicture 5494 organic acids, content, capsicum 4 plants orange 5571 pear 4284 herbaceous plants, annual report, Netherlands 4604 hypobaric, grapefruit 8098 organic acids, content, capsicum 4 plants carbohydrates, metabolism, rhuba		annual report, Australia 6480	
apple diseases 8392 size herbaceous plants, annual report, biological control drought resistance, peach 7444 Netherlands 4604 plum diseases 8476 tetraploid plants, spinach 125 hypobaric, grapefruit 8098 organic acids, content, capsicum 4 grapevine 8573 plants carbohydrates, metabolism, rhuba			
biological control drought resistance, peach 7444 Netherlands 4604 hypobaric, grapefruit 8098 Trichoderma viride, plum diseases 8476 tetraploid plants, spinach 125 hypobaric, grapefruit 8098 organic acids, content, capsicum 4 6659 grapevine 8573 plants incidence, peach diseases 7451 orange 5571 carbohydrates, metabolism, rhuba		,	
plum diseases 8476 tetraploid plants, spinach 125 hypobaric, grapefruit 8098 Trichoderma viride, plum diseases structure 5494 organic acids, content, capsicum 4 6659 grapevine 8573 plants incidence, peach diseases 7451 orange 5571 carbohydrates, metabolism, rhuba			
171 Archoderma Viride, plum diseases structure 5494 organic acids, content, capsicum 4 organic acids, content, capsicum 4 plants incidence, peach diseases 7451 orange 5571 carbohydrates, metabolism, rhuba	plum diseases 8476	tetraploid plants, spinach 125	hypobaric, grapefruit 8098
incidence, peach diseases 7451 orange 5571 carbohydrates, metabolism, rhuba			organic acids, content, capsicum 454
rootstock resistance, apple diseases 8345 water absorption, fruit, cracking, cherry 7759			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			nitrogen, content, grapevine 5830

Subject Index		110
Storage contd.	Storage contd.	Storage contd.
cold contd.	dips contd.	sulphur dioxide
plants contd.	disease control contd.	application
strawberry 7527 annual report, Netherlands 6670	Botrytis cinerea contd.	container generators, grapevine fruit
relative humidity, disorder incidence,	thiabendazole, celery 6948 Cercospora apii, thiabendazole, celery	596, 3599 potassium metabisulphite, grapevine
disease incidence, apple 4224	6948	fruit 595
rootstocks, rose, annual report,	Colletotrichum gloeosporioides	temperature
Netherlands 4604	hot water, mango 7205	capsicum 8763
seed, composition, apple 5712	sodium diethyldithiocarbamate,	disorder incidence, pineapple 6419
seedlings, cauliflower and broccoli 7638	mango 7205	eggplant 8763 fruit
temperature	zineb, mango 7205 C. spp., eggplant 6051	colour, orange 5573
disorder incidence, disease incidence,	Diplodia spp., lemon 6363	composition, citrus 5573
apple 4224	Geotrichum spp., lemon 6363	plant, weight loss, lettuce 7636
mandarin and tangerine 7153	mango 4871, 4873	respiration 0073
varietal behaviour apple 8413	Penicillium digitatum, lemon 6363	avocado 9073 vegetables 2744
pear 8471	P. expansum, pear, apple 5007	tomato, 2853
vegetables 4386	Phinopsis spp., lemon 6363	vegetables, review 7612
containers	Rhizopus stolonifer, benzyl isothiocyanate, papaw 7217	water removal from fruit in plastic bags,
apple 8415 cooling rate, vegetables 4385	Sclerotinia sclerotiorum,	low temperature breakdown, apple 487
liners, grapevine 3599	thiabendazole, celery 6948	wax coatings
pliofilm, chilling injury, prevention,	Septoria apii, thiabendazole, celery	apple 2600
grapefruit 8098	6948	chilling injury, prevention, grapefruit
polystyrene, economics, apple 980	stem end rot, benzyl isothiocyanate,	8098
trays, liners, pear 1033 controlled atmosphere	papaw 7217	fungicides biphenyl, residues, citrus 2404
carbon dioxide, apple 981	disease incidence, DPA, apple 5008 disorder control	sodium 2-phenylphenate, residues,
carbon dioxide concentration,	internal breakdown, calcium, apple	citrus 2404
natsudaidai 7154	3432	wraps, apple 8415
carbon dioxide injury, lettuce 6790	scald	Straw bales
chilling injury apple 1798	BHT, apple 8419	capsicum growing 4535 chrysanthemum growing 1142, 6143
prevention, grapefruit 8098	DPA, apple 1800, 8419	cucumber and gherkin growing 4451
disease incidence	ethoxyquin, apple 1800	annual report
apple 985, 2598	fruit ripening, growth substances, guava 9176	Belgium 4363
carrot 695	residues, ethylene dibromide, mango	UK 6773–6774
strawberry 7542 disorder incidence, apple 1801, 2598,	3243	nutrition 5213 stock growing 1142
4225	rot control	vegetable growing 1142
ethylene removal, apple 981	bordeaux, apple 7413	Strawberry
fruit	zineb, apple 7413	annual report
acidity, apricot 2615	thiabendazole, determination, citrus 2403	Belgium 1060, 4297, 5071, 6691 Canada 538, 2669, 6668, 7488
colour, apple 2597 composition	diseases	German Federal Republic 5094, 6669
apple 985	apple 1747, 4227	8481
banana 1544	control	Irish Republic 1857
citrus: 9104	banana 9106	Netherlands 100, 5073, 5095, 6670
pear 1035	citrus 9106	New Zealand 5074 Sweden 5075
strawberry 3558 enzyme activity	grapevine fruit 9106 pear 4227	UK 1855–1856, 1872, 3514–3515,
apple 6592, 7412	disorders	3533–3534, 5076, 5096, 7489
citrus 9104	coatings, fungicides, grapefruit 7152	USA 1440, 3516, 5077–5078, 6692,
firmness, apple 2597	growth substances, apple 7408	7490
flavour apricot 2615	onion 3771 fruit, review 5690	Yugoslavia 3517 breeding and selection 8502
citrus 9104	growth substances	annual report
strawberry 7542	treatment	India 2668
quality, apple 2597	root colour, carrot 1308	UK 3535
ripening, tomato 6103	root composition, carrot 1308	disease resistance
hypobaric, tomato 6104	harvesting date, apple 8415	Colletotrichum fragariae 1885 Diplocarpon earliana 3536
hypobaric system fruit trees and plants, annual report,	time of, peach 8463	Phytophthora fragariae 7520
USA 3348	losses, tropical crops 4147	fruit, quality 3537
fruits 1705	methods compared, onion 2835	interspecific hybridization 1874
packing methods compared, apple	packing methods compared, apple 1791, 2596	calcium, content, plant, disorders 4329 chlorophyll, content, plant nutrition
peach, annual report, Canada 2515	pest incidence, Araecerus fasciculatus,	5815
relative humidity	coffee 8156	drought 8285
capsicum 8763	plastic bags	resistance, evaluation techniques 8508
disease incidence, apple 4224	apple 5747	economics 4320
disorder incidence, apple 4224	nitrogen, content, grapevine 5830	EEC 3343 Switzerland 7519
eggplant 8763 respiration	orange 3150 pear 5747	UK 3343
apple 981	pre-cooling	electromagnetic field treatment 7541
citrus 9104	apple 8415	flowering, secondary, photoperiodism
strawberry 3558	disorders, apple 2597, 2600	3555
small unit, apple 8414	equipment, fruit 2646	forcing annual report, Netherlands 1068
systems, nitrogen addition, fruit 3361 temperature, natsudaidai 7154	fruit, ripening, plum 525 mobile unit, small fruits 2672	chilling requirements 3553
varietal behaviour, apricot 2615	rots, apple 2597, 2600	dormancy 3553
dips	vegetables, annual report, UK 2743	Italy 2159, 5159
apple 486	quality	light 5820
application, methods compared, tomato	cultural methods, apple 6590 environmental factors, apple 6590	tunnels 3554 heating 2696
6105 disease control	rind curing, mandarin and tangerine	frost
Alternaria alternata, pear, apple	9105	injury, root 2554
5007	root, quality, hybrids, celeriac 2902	protection, foam 8768
apple 5750	rots, mango 4871	fruiting
Botrytis cinerea	sand, nitrogen, content, grapevine 5830 soil management, apple 8415	autumn 5103 photoperiodism 1889–1890
pear, apple 5007	son management, apple 6415	photoperiodism 1007-1070

Strawberry contd.	Strawberry contd.	Strawberry diseases contd.
fruiting contd.	phosphorus, content, fruit, nitrogen	Botrytis cinerea contd.
photoperiodism 8521-8523	nutrition 8513	fruit storage, controlled atmosphere
second crop 8521-8523	photoperiodism	7542
fungicides	autumn cropping 1889–1890	incidence 4323
injury 109	flowering, secondary 3555	irradiation, ionizing 604
Bayer 47351 8514	forcing 5820	manganese nutrition 5817
benomyl 1073	fruiting 8521–8523	storage rots 1078
captan 1073	second crop 8521–8523	varietal resistance 4323, 5813, 7524–7525, 8504
dichlofluanid 547, 1073	photosynthesis	B. spp. 5731
thiram 1073	growth substances 5819	control, controlled atmosphere storage
interaction, nematicides 8514	plant nutrition 5815	3558
residues	planting	protected cultivation 1878
determination	bed systems 5099	Colletotrichum dematium
benomyl 6501, 7609	herbicide residues 2699	pathogenicity 8515
dichlozoline 8590	leaf desiccation 7528	symptoms 8515
thiabendazole 6501	material	Colletotrichum fragariae 1867, 1885,
fruit	quality, growth substances 2693	5100
dichlofluanid 1073	storage 3544	varietal resistance 5814
tri-dimethyldithiocarbamoyl-arsin	cold 7527	Corynebacterium fascians, -nematode
2704	containers, plastic 1879	complex 5699
translocation	plant, size 543, 1876, 2694–2695	Dendrophoma obscurans 2702
benomyl 5102	spacing 5099, 6695–6696, 7529	Diplocarpon earliana 1073
MBC 5102	economics 6695	varietal resistance 3536
growing 4320	time 1876, 2694–2695, 6696	Fusarium sporotrichiella 5101
autumn cropping 1889-1890, 3556,	Israel 3540	Gnomonia fructicola 4331
5103	pollination, compatibility 1069	green petal, varietal resistance 1881
German Federal Republic 7518	polyploids, haploid induction from 8501 potassium, content, fruit, nitrogen	Hainesia lythri, storage rots 1078
under glass 1139, 1686, 1878, 3545 varieties 1069	nutrition 8513	Marssonina potentillae 4324 mottle, vectors, Pentatrichopus fragaefolii
in greenhouses 5820	processing, freezing 6711	7537
Belgium 7531	production and trade	Mycosphaerella fragariae 1073,
late harvesting 8505–8506, 8519–8523	EEC 3343	1883–1884, 4324
under plastic 1686	UK 3343	boron nutrition 5817
Belgium 7531	rainfall, disease incidence, Botrytis cinerea	control 8482
injury 3546	7539	copper nutrition 5817
types compared 3546	replanting, soil, fumigation, fungus control	manganese nutrition 5817
protected cultivation, symposium 6698	3547	Phytophthora cactorum 1071
Spain 1873	research, review 2670	P. fragariae
sub-tropics, USA 4321	respiration	detection 1074
symposium, Canada 8500	fruit	resistance, breeding and selection 7520
Tunisia 4369	gamma rays 1504	varietal resistance 7524–7525
tunnels 1686, 1878, 1889–1890	storage, controlled atmosphere 3558	Pythium spp. 108
plastic 6700, 7531	leaf, growth substances 5819	Rhizoctonia fragariae 1886
fruit	runner	soil-borne 3319
ripening, ventilation 7530 size, ventilation 7530	development, growth substances 6709 formation, growth substances 6708	Sphaerotheca fuliginea, varietal resistance 8504
use of plastic materials 2738	production 6710	S. humuli 3550
vineyards 544	electromagnetic field treatment 7541	Sphaerotheca macularis 1072, 4324
harvesting	growth substances 6710	protected cultivation 1878
mechanical 549	rooting	varietal resistance 3539
annual report, Italy 6714	date	Typhula spp., stored runners 109
equipment 2672	fruit number 6697	Verticillium albo-atrum
mobile platform 1891	fruit size 6697	control 7540
once-over 8524	storage 109	soil, drenches 3550
heat treatment 1690	cold 3544	V. dahliae 111
clonal selection 5097	late fruit harvesting 8523	soil
mite control, runners 8516	plastic bags 3544	amendments 110
virus control 7536	soilless culture, nutrient solution, addition,	fumigation 3325
herbicides 3323	algae, Anabaena cylindrica 2701	varietal resistance, temperature 3325
injury	storage	Verticillium spp., varietal resistance
prevention, simazine 545	cold, plants 7527	7524–7525 virus 3549
simazine 8511 plant composition, simazine 545	controlled atmosphere disease incidence 7542	heat treatment 7536
residues	fruit	indexing, annual report, Canada 6667
fruit	composition 3558	varietal resistance 4324
atrazine 2700	flavour 7542	yield reduction 4330
chlorthal dimethyl 546	hypobaric system 1705	Strawberry disorders
2,4-DES 546	respiration 3558	chlorosis, nutrition 106
Eptam 2700	pre-cooling, equipment 2646	tipburn, calcium deficiency 4329
prometryne 2700	temperature 5821	Strawberry flower
simazine 2700	taxonomy 4320	bud initiation 1888
trietazine 2700	transport	growth substances 1888, 6710
vernolate 1698	damage 7307	removal
soil, dalapon 2699	pre-cooling 1077	chemical 8519-8520
historical survey 4320 insecticides	vitamins, content 3339 water relations, study technique,	for later cropping 8519–8520
residues	phosphorus-32 beta gauge 8518	ever-bearing varieties 4333
arsenic 3329	weed control 546, 1946, 2697–2698,	Strawberry fruit amendments, peat 1880
fruit, phosalone 8517	4326, 5680, 7532, 8509–8512	amino acids, content, potassium nutrition
lead, residues 4936	wind	7535
light	damage 1877	anatomy, varietal differences 7543
emission, leaf, drought resistance 8508	protection 5808	composition 101
intensity 544	windbreaks, plastic 7531	boron nutrition 5817
supplementary, forcing 5820	winter hardiness, measurement 8507	copper nutrition 5817
mulching	Strawberry diseases 3319, 6704	manganese nutrition 5817
paper, plastic coated 6699	Botrytis cinerea 547, 1073, 1882–1884,	potassium nutrition 7535
plastic 1879, 2738, 4327, 6696,	3319, 4324, 7539	vitamins, freeze dried 112
6699–6700, 7529, 7531	boron nutrition 5817	development 548
soil 6700	control 6707, 7538, 8482	flavour, storage, controlled atmosphere
nematicides, interaction, fungicides 8514	methods compared 6705–6706	7542
packing, plastic 1879	copper nutrition 5817	irradiation, ionizing, disease control 604

Strawberry fruit contd.	Strawberry nutrition contd.	Strawberry varieties contd.
loosening, growth substances, ethephon	general	comparative trials contd.
5801	fruit, composition 8513	Sweden 8503
maturity, growth substances 6710	leaf analysis, symposium 2489	Switzerland 4322
number growth substances, GA 3557	iron, chlorosis 106	UK 1070
runner rooting date 6697	leaf-fruit relationships 869 major elements	Botrytis cinerea 4323–4324, 5813,
peduncle, removal force, varietal	application, foliar 5815	7524–7525, 7539
differences 7543	leaf analysis 3548	Colletotrichum fragariae 1885, 5814
pigments, biosynthesis 548	manganese	Diplocarpon earliana 3536
post-harvest treatment, gamma rays,	application, foliar 5816 disease incidence 5817	Marssonina potentillae 4324
respiration 1504	fruit	Mycosphaerella fragariae 4324 Phytophthora fragariae 7520,
quality boron nutrition 5817	composition 5817	7524–7525
copper nutrition 5817	quality 5817	Sphaerotheca macularis 3539, 4324
growth substances 6708	Maxicrop 5098	Verticillium dahliae 3325
manganese nutrition 5817	minor elements application, foliar 5815	Verticillium spp. 7524–7525 virus diseases 4324
ripening 548	leaf analysis 3548	Fanyl 4325
growth substances, GA 3557	nitrogen 8514	Fraginetta 1875
leaf removal 7533 mulching 4327	application, foliar 1880	fruit
nutrition 1880	sources, compared 7534	anatomy 7543
tunnel ventilation 7530	sources compared 1880 toxicity 7534	peduncle, removal force 7543 quality 5822
senescence, polysaccharides, content 548	NPK 6701	Gorella, clonal selection 5097
size	application, foliar 5816	greenhouse 1069
growth substances, GA 1880, 3557	leaf analysis 6702	Havelland 1875
planting, date 2694 runner rooting date 6697	soil composition 6703	Holiday 7526
soilless culture, nutrient solution, algae	potassium, fruit, composition 7535 sulphur, chlorosis 106	late cropping 8523 Netherlands 7522
2701	Strawberry pests 6704	pest resistance, Tetranychus telarius
tunnel ventilation 7530	Anthonomus rubi 8517	6694
sugars	Aphelenchoides fragariae	Pocahontas 5103
content 548	annual report, German Federal Republic 4298	processing 541
potassium nutrition 7535	bacteria complex 5699	freezing 540, 6711 Rainier 8504
Strawberry growth substances	A. ritzema-bosi 3551	Redgauntlet, autumn harvesting 3556
endogenous	A. ritzemabosi, annual report, German	Regina, clonal selection 5097
leaf 4332	Federal Republic 4298	register, USA 3356, 4156
runner bud 4332 flower, removal, Off-Shoot-T 8519–8520	aphids 107 Aphis forbesi 5079	Sicily 542 Sivetta 7524–7525
flower bud, initiation, GA 1888, 6710	Brachyrhinus rugosostriatus 1076	Switzerland 4322
flower removal, Off-Shoot-T 4333	coleopterous larvae 107	Tago 7524-7525
fruit	integrated control 2703	Tenira 7524-7525
loosening, ethephon 5801	Lygus lineolaris 1887	Turkey 7523
maturity, GA 6710 number, GA 3557	mites 107 moths 107	USA 4321 winterhardiness 3358
quality	Otiorrhynchus sulcatus 5818	virus tolerance 539
aminozide 6708	Pentatrichopus fragaefolii 5079	Strelitzia spp.
chlormequat 6708	vectors, mottle 7537	intercropping
ripening, GA 3557 size, GA 1880, 3557	slugs 107 Tarsonemus fragariae 1075	kohl-rabi 8879 ornamental plants 8879
photosynthesis, abscisic acid 5819	control 8516	photosynthesis, leaf tearing 382
planting material, quality, chlormequat	Tetranychus telarius	water relations, leaf tearing 382
2693	annual report, UK 3552	Streptocarpus spp.
respiration, abscisic acid 5819	varietal resistance 6694 various, control 6586	annual report, UK 3832 genetics, male sterility 1351
responses chlormequat, review 8310	Strawberry plant, storage, cold 7527	growth substances, endogenous, leaf
GA 3540	Strawberry propagation, virus-tested plants	7890
runner	7536	propagation, leaf, tissue culture 7890
development, GA 6709	Strawberry seed, composition 101	tissue culture
formation aminozide 6708	Strawberry soil amendments, olive pulp 1880	leaf growth substances, treatment 7890
chlormequat 6708	fumigation 1879	mother plant treatment 7890
production, GA 6710	fungus control	temperature 7890
Strawberry hybrids, disease resistance,	DD 3547	Streptomyces scabies, radish diseases 3672
Diplocarpon earliana 3536	methyl isothiocyanate 3547	S. spp.
Strawberry leaf analysis, sampling 6693	injury, Vorlex 8514 nematodes, Vorlex 8514	antibiotics, production 4475 carrot diseases, annual report, German
calcium, content, NPK nutrition 6702	Verticillium dahliae	Federal Republic 7599
light emission, drought resistance 8508	chloropicrin-methyl bromide mixture	Stromatinia gladioli, gladiolus diseases,
magnesium, content, NPK nutrition	3325	annual report, Netherlands 6961
6702	Ditrapex 3325 heating 2696	S. spp., bulbs, diseases 6165 Strontium
nitrogen, content, NPK nutrition 6702 phosphorus, content, NPK nutrition	micro-organisms, amendments,	absorption
6702	Verticillium dahliae 110	mitochondria, bean (Phaseolus) 187
potassium, content, NPK nutrition 6702	nutrients	reduction, clinoptilolite, contaminated
removal 4328, 7533	accumulation, bed systems 5099	soils, bean (Phaseolus) 2789
Strawberry nutrition	availability 6703 sickness 3547	root, mechanism, tomato 4561 content
application, foliar 5816	temperatures, frost injury 2554	leaf, bean (<i>Phaseolus</i>) 2010
disease incidence 5817	types, plant composition 7818	pod, bean (Phaseolus) 2010
fruit	Strawberry varieties 2692	Strophanthus spp.
composition 5817	annual report, UK 3538	flavonoids, phenolid compounds 4727
quality 5817	autumn harvesting 5103 Bilyana, white-fruited 4324	steroids, biosynthesis 1435 taxonomy, chemotaxonomy 4727
calcium, deficiency, tipburn 4329	Bounty 3543	Stropharia rugosa annulata, edible fungi
application, foliar 5816	comparative trials 3541, 7521	6958
disease incidence 5817	annual report, German Federal	Strumeta tryoni
fruit 5917	Republic 5072	banana pests, annual report, Australia
composition 5817 quality 5817	Israel 3540 Italy 3542, 5098	5600 tomato pests, annual report, Australia
FYM 1880	Netherlands 5813	5882

Strychnos spp.	Sugar cane contd.	Sugar cane contd.
alkaloids 6318	growing	intercropping contd.
medicinal properties 6316	Ghana 4882 USA 4883	onion 8202 various crops
review 6317	growth, factors affecting, review 408	soil, temperature 2467
Strychnos usambarensis, alkaloids 9060–9061	growth studies 6447	sunlight, absorption 2467
Stylosanthes guyanensis, as a cover crop, oil	harvesting	vegetables 5650
palm 7209	burning 2478, 6434, 7259	irrigation 8211
S. spp.	cane deterioration 7260, 8259	economics, Argentina 6436
as a cover crop	carbohydrates content 9268	frost resistance 9233
citrus 5551	chopping, cane deterioration 8259	furrow 2468, 8209
tea 8269	desiccation, herbicides 4894	requirements 8210, 9242
ground cover plants, coffee 7190	deterioration 1654–1655, 6452,	determination 6436, 7239
Styrax officinalis, fruit, oil, composition	7259–7260, 8259	saline water 6439
9067	labour requirements 5656	plant composition 4888 salinity problems 407, 6439
Sub-tropical crops	mechanical 4105, 4894 choppers 5657, 6451	spray 407
fungicides, disease control, copper, review	equipment 8258	sub-surface 2468
1694	for lodged cane 8257	Ivory Coast, annual report, France 564
irrigation, requirements 6326	review 6450	juice
Sugar cane	trash removal 8260	determination 9226
annual report Australia 9219	wholestick cutters 6451	quality
East Africa 8188	windrower 6453	cane age 9267 desiccation 4894, 9267
Guyana 9220	time of 428, 7257 cane maturity	harvesting methods 7260
Philippines 8189	analysis 7258	irrigation 8210
Sarawak 4036	sampling 7258	nitrogen nutrition 8202
South Africa 7230	cane quality 9266	silicon, determination 3260
USA 1530, 9221	varietal differences 7262	light
West Indies 4080	nitrogen nutrition 1626	enzyme activity, leaf 8251
boron, translocation 4102	ratoon age, sucrose content 7256	intensity
breeding and selection 2465, 3259	heat treatment	boron, absorption 4102
growing in pots, rapid screening 8192	equipment 7242 fungus control 8230	water relations 4102 sunlight
polyploid, induction 403 calcium, content, leaf, flooding 8200	virus control 7240, 8223, 8230, 9252	absorption, intercropping 2467
carbohydrates, translocation 4101	sett 8225	soil, temperature, intercropping
carbon monoxide, metabolism 9261	herbicides 3321	0.477
chlorophyll	disease incidence	utilization, growth responses 408
content	atrazine 5652	magnesium .
cold treatment 8247	dalapon 5652	content
diseased plants 8247	diuron 5652	leaf
enzyme activity 9260	enzyme activity, inhibition, paraquat 8251	drought 8200 flooding 8200
chloroplasts, starch, content, temperature 4088	injury 405	Malagasy Republic, annual report, Franc
climate, yield 7234	application methods, 2,4-D 7238	5647
clones, Venezuela 8197	dalapon 847	nematicides
cold, injury 4088	diuron 847, 4886, 8206	application
cold treatment, photosynthesis 8247	2,4-D 9237	methods compared
drought 2474	prevention, 2,4-D 7238	aldicarb 7246
leaf, composition 2474, 8200	terbacil 9237	DBCP 7246 DD 7246
sucrose, accumulation 404 economics, plant nutrition 9245	persistence ametryne 9236	EDB 7246
enzyme activity	atrazine 9236	Niger Republic, annual report, France
cane	diuron 9236	5647
growth 2475	linuron 8206	nitrogen
ripening 2475, 6449	physiological responses, atrazine 3256	content
leaf	residues, plant, picloram 9241	leaf
chlorophyll, content 9260	soil pH 5652	drought 8200
light 8251 manganese deficiency 1632	tolerance dalapon 9239	flooding 8200 nutrient absorption, soil, compaction
sugars, content 1632	diuron 4886	8212
photosynthesis 8248	2,4-D 7238	phosphorus
plant 8252	fenac 9239	content
root	terbacil 9239	leaf 7252
boron toxicity 8217	triazines 1650	root 7252
ethylene production 4103 starch degradation 1647	translocation, picloram 9241 humidity, relative	metabolism, silicon nutrition 7252 photoperiodism
enzymes	boron, absorption 4102	boron, absorption 4102
leaf, light 8251	flowering 8250	flower bud, initiation 8255, 9264
plant 8252	varietal behaviour 8250	flowering 2465
shoot 1648	water relations 4102	date 8250
varietal differences 8191	hybrids 9225	varietal behaviour 8250
flooding 2474	insecticides	water relations 4102
leaf, composition 2474, 8200	injury, application methods, BHC	photosynthesis 0261
root systems 8253 varietal tolerance 8253	8236 interaction	carbon monoxide 9261
flowering	nitrogen nutrition	cold treatment 8247 diseased plants 8247
control, herbicides 1651	BHC 7251	enzyme activity 8248, 9260
photoperiodism 8250	Telodrin 7251	planting
relative humidity 8250	pest resistance	depth 2468
fluorine, determination 4089	Aeneolamia varia saccharina	fire-breaks 6434
frost	aprocarb 8235	material, heat treatment 8226
resistance 9232	carbanates 9254	mechanical 1621
irrigation 9233	carbaryl 8235 residues	sett, length 8198 spacing 2468, 9231
varieties 9233	determination 7249	systems, 86206 8198
fungicides	soil	time
application	aldrin 5653	Portuguese East Africa 6432-6433
under air pressure	dieldrin 5653	sucrose content 7256
setts	yield increase, isobenzan 7250	potassium
benomyl 8229	intercropping	content
captan 8229	crops compared 9235	leaf
PCNB 8229	economics 9235	drought 8200

Subject Index		111
Sugar cane contd.	Sugar cane contd.	Sugar cane diseases contd.
potassium contd.	weeds 9237–9238	mosaic contd.
content contd.	competition 8204	photosynthesis 8247
leaf contd.	yearbook, South African 7229	varietal resistance 4086, 9251
flooding 8200	yield	vectors, aphids, annual report, USA
products and by-products	climate 7234	6383
bagasse, mushroom compost 8820	design of trials 8190	mosaic virus, hot water treatment 6441
filter cake, as a fertilizer 7263, 5659	potential, sunlight utilization 7261	Pythium arrhenomanes, soil micro-
rainfall, sucrose, content 9232 replanting, economics 9222	Sugar cane, cane	organism antagonism 415
report, USA 6382	age, juice quality 9267 breakage	ratoon stunting 6442 heat treatment 7240, 8223, 8230, 925
Reunion, annual report, France 5647	measurement 9234	equipment 7242
rhizosphere, enzyme activity 4103	varietal differences 9234	Mexico 6440
ripening	carbohydrates	varietal resistance 8224
chemical 1653, 7254-7255, 8256	content	ratoon stunting virus 7241
enzyme activity 2475, 6449	harvesting 9268	hot water treatment 422, 6441
growth substances 1652	maturation 9268	Sclerospora sacchari
aminozide 6449	composition	control 8219
chlormequat 6449 ethephon 6449	drought, leaf size 8261	incidence 8219
60-CS-160 6449	seasonal variations 7262 fibre, 'determination 9226	resistance 5648 streak
sucrose, accumulation 404	maturity	varietal resistance 4086
rodenticides, residues, plant, zinc	analysis 7258	vectors, Aceria sacchari 6443
phosphide 3258	forecasting 2477	striate mosaic 4096
sett	planting, time 6432-6433	Ustilago scitaminea 4097, 4890
coatings 6430	sampling 7258	East Africa, survey 8220
fungus transmission, Cephalosporium	varietal differences 8195	environmental factors 6429
sacchari 4098	quality	plant thinning 7245
germination	determination, methods 1656	planting density 7245
coatings 6430	drought, leaf size 8261	seasonal susceptibility 6429
temperature 4088	harvesting methods 9268	varietal resistance 845, 4085, 6429,
urea treatment 1634 heat treatment, pest control 9256	leaf sheath moisture content 8213 seasonal variations 7262	6445–6446, 7231 varietal susceptibility 4884
treatment, fungicides 6431, 8228–8229	rind hardness 9224	U. spp. 422
silicon, determination, colorimetric 7287	ripening	varietal resistance 4086
spraying, aerial, insecticides 4893	growth substances 9265	white leaf, vectors, Matsumuratettix
statistical, design of trials 8190	silicon nutrition 9265	hiroglyphicus 7243
stomata, number, disease resistance 5648	sugars, content, enzyme activity 2475	Xanthomonas albilineans 423
sucrose	water	control 8226
content	content	varietal resistance 4084
climate 7234, 9232	irrigation requirements 7239	X. vasculorum 4889
cold 404	soil moisture 7239	Sugar cane disorders, red-freckle syndrome
drought 404 estimation method 5658	Sugar cane diseases Cephalosporium sacchari	photosynthesis 8247 Sugar cane flower
harvesting, time of 7256	transmission, sett 4098	bud initiation 8254–8255
irrigation 8210–8211	water relations 7244	growth substances, endogenous 9264
leaf sheath moisture 4090	Ceratocystis adiposa 4097	photoperiodism 9264
measurement 1644	Ceratocystis paradoxa 6431, 7240	Sugar cane growth substances
nitrogen nutrition 4090, 9246	sett treatment 8228	cane
planting, time 7256	soil moisture 8227	ripening
temperature 4088	temperature 8227	chlormequat 9265
sugars 6448	Cercospora koepkei 1635, 6444	dalapon 9265
accumulation 6448 translocation 1643	C. longipes, East Africa, survey 8220 chlorotic streak, soil amendments 8221	ethephon 9265 GA 9265
sunlight, utilization, yield potential 7261	Cochliobolus Junatus 4097	endogeneous
taxonomy, chemotaxonomy 8191	Colletotrichum falcatum, planting	shoot-tip
temperature 6447	material, treatment 8229	flower bud initiation 9264
boron, absorption 4102	control, Taiwan 7240	photoperiodism 9264
sucrose accumulation 404	Curvularia senegalensis 4097	plant composition, GA 1649
sucrose content 4088	Drechslera hawaiiensis 4097	responses, GA 4104
water relations 4102, 6447	D. rostrata 4097	ripening 1652
tissue culture	fiji disease control 8219	Sugar cane leaf analysis, sampling, time of 8214
callus 4087 cell suspension 403	detection 420	composition
media 2476	incidence 8219	climate 8214
leaf, herbicides, treatment 7253	report, Australia 4094	diurnal variations 8214
pith, herbicides, treatment 7253	vectors 421, 1633	plant age 8214
shoot-tip, herbicides, treatment 7253	Fusarium moniliforme, Mexico 6440	flower bud, initiation 8255
transpiration	F. oxysporum, herbicides 5652	nutrients
anti-transpirants	F. solani, herbicides 5652	content
boron, absorption 4102	F. spp.	drought 8200
water relations 4102	sett germination 850 varietal resistance 850	flooding 8200 removal, flower bud, initiation 8255
evapo- estimation 9263	Glomerella tucumanensis	sheath loosening, herbicides, dicamba
measurement 9262	heat treatment 8230	6449
water relations 4100, 8249, 9262–9263	varietal resistance 8194	sheath moisture content
anti-transpirants 4102	screening method 1636	cane quality 8213
disease incidence, Cephalosporium	grassy shoot	pest resistance, Aceria sacchari 9227
sacchari 7244	control 9250	sheath size, pest resistance, Aceria
light 4102	heat treatment 8230	sacchari 9227
lysimeters 427	method 1634	size, cane composition 8261
physiology 1645	incidence 4095	sugars, content, enzyme activity 1632
relative humidity 4102	review 8222, 9250 sett propagation 9249	water content drought 2474
salinity 6439 temperature 4102, 6447	Helminthosporium sacchari	flooding 2474
weed control 405–406, 4885, 5651,	histology 424	Sugar cane nutrition
6434–6435, 7235–7237, 8203, 8205,	resistance 8231	aluminium
8207–8208, 9236–9240	Leptosphaeria taiwanensis	phosphorus absorption 7252
annual report, East African Community	resistance 4087	toxicity 409
5617	varietal resistance 4083	boron
Cyperus spp. 8206	mosaic 6442	absorption
herbicides compared 1622	heat treatment 8225	light 4102
review 8121	Mexico 6440	relative humidity 4102

Sugar cane nutrition contd.	Sugar cane pests contd.	Sugar cane propagation contd.
boron contd.	Diatraea contd.	pith, tissue culture 7253
absorption contd.	D. saccharalis 2472	sett, bud position on source plant, virus incidence 9249
temperature 4102 deficiency, root composition 8217	parasites 2469	shoot-tip culture 7253
toxicity toxicity	predators 8239	Sugar cane root
enzyme activity 8217	varietal resistance 1617, 2466, 2472,	anatomy 9223
root composition 8217	8193	composition, boron nutrition 8217
calcium 419	D. spp.	systems
chlorine	aerial spraying 8235	flooding tolerance 8253
deficiency 8218	biological control, review 1640 damage, assessment 2471	varietal differences 8253
requirements, varietal differences 8218	Mexico 6440	Sugar cane soil amendments
distillery effluent 1625 FYM 1624	parasites 5654	compost 8216
general	Eldana saccharina	molasses, disease incidence 8221
economics 9245	control, cultural methods 8240	scums, disease incidence 8221
leaf analysis 8213, 9245	East Africa, survey 8220 gophers, control 9258	compaction 411
methods 413	Hoplolaimus spp. 7246	nutrient absorption 8212
green manures 8215	insects	cultivation 8198, 8205
major elements	control, review 1532	depth 9230
leaf analysis 412	damage assessment 4081	micro-organisms 9243 moisture
plant analysis 6437 manganese, deficiency, enzyme activity	Longiunguis sacchari, aerial spraying 8235	conservation, asphalt barriers 410
1632	Macropes excavatus 7247	plant growth 9242
manuring	Matsumuratettix hiroglyphicus, vectors,	рĤ
filter cake 415	white leaf 7243	disease incidence 5652
poultry litter 414	Melampsalta puer, population survey	herbicides 5652
minor elements leaf analysis 412	1638 Melamoratta puer biological control	salinity, water table 8199 structure, amendments 8216
plant analysis 6437	Melampsatta puer, biological control 1638	temperature 6447
nitrogen 412, 417–418, 1624, 1628–1629,	Melanaspis glomerata 852	intercropping 2467
3257, 4090, 8211, 8215	Meloidogyne spp. 7246	types
application	crop rotation 425	Argentina 9244
methods compared 1630	Mogannia hebes fungal parasites 9257	Zambesi delta 1623 water table 8199, 8212
time 1627 cane, juice quality 8202	Taiwan 7240	varietal behaviour 8201
enzyme activity, leaf 8251	moths 8234	Sugar cane varieties
harvesting, time of 1626	Mythimna phaea	B.L.4 1619
insecticides 7251	biological control 8234	Brazil 4884
leaf analysis 1630, 8213	damage 8234	cane breakage 9234
plant analysis 3257 sources, compared 8216, 9246	forecasting, light traps 8234 nematodes, Taiwan 7240	quality, seasonal variations 7262
urea, slow-release 4092	Numicia viridis	chlorine, deficiency, resistance 8218
NPK 416, 848–849, 4091, 6438	aerial spraying 8241	Co. 1053 846
soil compaction 8212	parasites 8241	India 7232
phosphorus 412, 417, 1624, 1631	varietal resistance 7248	Colombia 5649
absorption, aluminium nutrition 7252 leaf analysis 9247	Oligonychus indicus, control 8232 Perkinsiella saccharicida	Co.L.29 1619 comparative trials 8195
soil analysis 9247	biological control 1637	Co.1336 9228
potassium 412, 417	virus vectors 1633	disease incidence, grassy shoot 4095
deficiency 409	P. saccharina, vectors, fiji disease 421	disease resistance 845, 850
rubidium, soil compaction 8212	Pratylenchus spp. 7246	Glomerella tucumanensis 8194
silicon 4093, 4887 cane, ripening 9265	Pyrilla spp. 2473 aerial spraying 4893	Leptosphaeria taiwanensis 4083 mosaic 9251
deficiency, symptoms 4887	Radopholus similis, alternative hosts	screening method 1636
phosphorus metabolism 7252	7608	Ustilago scitaminea 4085, 6429,
soil analysis, techniques 1628	rats	6445–6446, 7231
sulphur 409	control, zinc phosphide 8244–8246	<i>U.</i> spp. 4086 virus 4086
leaf analysis 9247 soil analysis 9247	damage 9259 damage assessment 4081	Xanthomonas albilineans 4084
zinc, deficiency 409	Mexico 6440	flooding tolerance 8253
Sugar cane pests 1696	review 1642	frost resistance 9233
Aceria sacchari	review, Bolivia 5671	Ghana 4882
cane age 9253	Rhabdoscelus obscurus 4099, 5653	harvesting, time of 7257
incidence 9253 varietal resistance 9227	biological control 5653 varietal resistance 4082	herbicides, tolerance 4886, 7238 identification, enzymes 8191
vectors, streak 6443	rodents 7170	India 1618
Aeneolamia postica, Mexico 6440	Mexico 6440	ISD.5/55 9229
A. varia saccharina	Rotylenchus spp. 7246	pest resistance 4082
aerial spraying 8235	Saccharicoccus sacchari	Aceria sacchari 9227
control 4891 insecticides, resistance 8235, 9254	East Africa, survey 8220	Diatraea saccharalis 2466, 2472, 8193
Antitrogus mussoni, insecticides,	parasites, Anagyrus saccharicola 8242 Saccharosydne saccharivora, host-pest	Numicia viridis 7248 Scirpophaga nivella 1639
application, methods compared 8236	relationships 8243	O.86 1620
ants 4882	Schizotetranychus andropogoni 8233	Q.90 7233
Aphaenogaster pythia 1638	Scirpophaga nivella 426	USA 6428
aphids, vectors, mosaic, annual report,	varietal resistance 1639	Venezuela 8196
USA 6383 Aulacaspis tegalensis 9256	Sipha flava, aerial spraying 8235 survey	water table depth 8201 Sugars
control, cultural methods 8237	Australia 9248	accumulation, fruit, citrus 9108
East Africa, survey 8220	Malagasy Republic 9248	biosynthesis
biological control 2470	Mauritius 9248	coloured light, Salvia sclarea 7085
borers, parasites, Apanteles flavipes 9255	Tapajosa rubromarginata, biological	photoperiodism, Salvia sclarea 7085
Chilo indicus, incidence 853	control 5655	boron putrition, bean (Phaseolus) 3710
C. infuscatellus incidence 853	Trichodorus spp. 7246 Tryporyza nivella, incidence 853	boron nutrition, bean (<i>Phaseolus</i>) 3710 fruit 8667
parasites 1641	Xiphinema spp. 7246	berry fruits 101
C. spp., Mexico 6440	Zeadiatraea spp., Mexico 6440	citrus 7157
Chilotraea auricilia, incidence 851, 4892	Sugar cane plant, composition, irrigation,	Citrus spp. 7157
Criconemoides ornatus 7246 Diatraea centrella, Bahamas 8238	saline water 4888	drought, mandarin and tangerine 8093
D. lineolata, Bahamas 8238	Sugar cane propagation leaf, tissue culture 7253	mutagens, tomato 7769

Subject Index		111
Sugars contd.	Sulphur dioxide contd.	Synsepalum spp.
content contd. fruit contd.	proteins, content, pea 6015 stomatal movements, bean (Vicia) 2039	nutrition, plant composition, analytical data 5539
pruning and training, grapevine 8550	Sunburn injury, prevention, whitewashing fruit,	propagation 787 Syrphidae, predators on, <i>Macrosiphum pis</i> .
herbicides, simazine, apple 968 leaf, disorders, chrysanthemum 6972	melon (cantaloup and musk) 622 injury prevention, white paint 3338	1232 Syrphus spp.
light, black currant 4310 pruning, grapevine fruit 5844	Sunlight utilization	control cucumber and gherkin pests 5222
seed Iridaceae 8883 Liliaceae 8883	photosynthesis, grapevine 8565 yield potential, sugar cane 7261	Cucumis melo var. flexuosus, pests 5222
viability, oil palm, annual report, Nigeria 9181	Swede annual report, UK 1936	predator on, Brevicoryne brassicae, cabbage 8624 S. vitripennis, predator on, aphids, peach
seedling, growth substances, lettuce 6789	cadmium, determination 4389 ethylene treatment	1022 Syzygium jambos, propagation, under mist
sub-tropical fruits, report, USA 6324 degradation, storage, lettuce 7636	root	5677 S. javanica, propagation, under mist 5677
determination, fruit, methods compared, tomato 2137	lignin, biosynthesis 5934 phenolic acid, biosynthesis 5934 insecticides, residues 1173	Tabernaemontana coronaria glycosides 9062
metabolism leaf removal, apple 3414	lead, determination 4389	sterols 9062
ringing, apple 3414 root, pea 7741	nutrient absorption growth substances	T. spp. growth substances
shoot bending, apple 3414	benzyladenine, tissue culture 1956	leaf senescence
translocation phloem blockage, bean (<i>Phaseolus</i>)	kinetin, tissue culture 1956 respiration, root, heat production, storage	benzimidazole 8969 chlormequat 8969
5987 radish 8639	1148 storage, respiration, heat production	GA 8969 IBA 8969
temperature, vegetables 5987 Sulphur	1148	leaf senescence
-coated fertilizers, watermelon 3683	thinning, spacing 7645 tissue culture, root, nutrient absorption,	growth substances 8969
content leaf	growth substances 1956	photoperiodism 8969 photoperiodism, leaf, senescence 8969
sugar cane, annual report, South	weed control 7653 Swede diseases	Taeniothrips vulgatissimus, vectors, Botryt.
Africa 7230 temperature, pea 2813	Erysiphe cruciferarum 2757	fabae, bean (Vicia) pests 8708 Tagetes
nitrogen nutrition, lawns and sports turf	Seedstock resistance 2757	essential oil, content 7983
6193 plant, air pollution, annual report,	Plasmodiophora brassicae assessment methods 5165	flowering growth substances
German Federal Republic 6481	resistance, breeding and selection 4426	GA 2217
deficiency banana nutrition 825	varietal resistance 7640 Swede nutrition	TIBA 2217 photoperiodism, temperature 2217
cabbage, chinese 4423	boron, deficiency, annual report, German	temperature, photoperiodism 2217
coconut nutrition 841 enzyme activity, bean (<i>Phaseolus</i>)	Federal Republic 7599 nitrogen 7645	growth studies, inoculation, <i>Penicillium</i> simplicissimum 2207
3717	phosphorus 7645	light,
oil palm nutrition 841 symptoms, coffee 3198	potassium 7645 Swede pests	flowering 2217
determination, methods, sugar cane,	Hylemya brassicae 1173	interaction, photoperiodism 2217
annual report, USA 9221 fruit, sugars, content, tomato 6079	H. spp., annual report, Canada 1944 Swede seed	photoperiodism boron, deficiency, symptoms 5416
leaf analysis carrot 6109	disease resistant stocks, Erysiphe cruciferarum 2757	interaction light, intensity 2217
oil palm 7214 sugar cane 9247	sowing, spacing 7645 Swede varieties, disease resistance,	temperature, 2217 seedling, raising, containers 2218
tropical plants 3173	Plasmodiophora brassicae 7640	temperature, interaction, photoperiodism 2217
nitrogen metabolism, vegetables 6079 ozone injury, prevention, bean (<i>Phaseolus</i>)	Sweet pea, seedling, growth, inhibition, Coronilla varia seed leachate 7625	weed control 2171
2788 plant, flavour, watercress nutrition 1989	Sweet pea diseases Erysiphe polygoni, control 7885	Tagetes diseases cucumber mosaic 7000
requirements	Ramularia deusta, control 7885	mosaic 8880
temperature, pea nutrition 2813 vegetables 4381	virus, report, Australia 3831 Swertia decussata	Tagetes growth substances flowering
soil analysis, sugar cane 9247	glycosides 7115	GA 2217
Sulphur dioxide amino acids, content, pea 6015	organic acids 7115 sterols 7115	TIBA 2217 interaction, boron nutrition, aminozide
application	triterpenes 7115 Switzerland	5416 Tagetes leaf, composition, plant inoculation
container generators, grapevine fruit 596	damson, growing 5059	Penicillium simplicissimum 2207
injury, grapevine 1916 potassium metabisulphite, grapevine	grapevine, growing, mechanization 5104 strawberry, economics 7519	Tagetes nutrition boron
fruit 595	Syagrus spp., leaf, anatomy 3979	deficiency
storage grapevine 1916	Sycophaga sycomori, Ficus sycomorus, pollinator 1811	symptoms correction, growth substances,
grapevine, fruit 7426 hop 1421	Sylepta semilugens, cola pests, annual report, Nigeria 4035	aminozide 5416 photoperiodism 5416
disease incidence, Venturia inaequalis,	Symphylites spp., cacao pests 2444 Synanthedon hector, control, peach pests	nitrogen 6133 phosphorus 6133
apple 4130 injury 4130	7448	Tagetes root, exudate, composition,
bedding plants 1322 annual report, Canada 8836	S. pictipes, peach pests 3477 S. tipuliformis	inoculation, <i>Penicillium simplicissimum</i> 2207
chrysanthemum 6132	black currant pests 6677	Tagetes seed
greenhouse crops 7296 ornamental plants 6132	red currant pests 6677 Syngonium podophyllum, diseases, Erwinia	sowing, direct, in pots, pelleted 2165 treatment, pelleted 2165
ornamental trees and shrubs 7845	carotovora 3915	Tagetes spp.
annual report, Netherlands 6961 prevention, growth substances,	S. spp. nutrition	annual report Austria 347
poinsettia 8946	annual report, USA 6129	USA 3836
Prunus spp., annual report, Netherlands 5698	major elements, plant, analysis 1376 minor elements, plant, analysis 1376	flower, pigments, analytical methods 28 fungicides, injury, benomyl 1146
plant resistance, ornamental trees and shrubs 7845	plant, composition, major and minor elements 1376	nematode population control 7300 ozone, injury 1322

Tagetes spp. contd.	Taxonomy contd.	Tea contd.
seed, germination 725	essential oil contd.	herbicides contd.
seedling, production, temperature 276	. Rosa spp. 4714	respiration
sulphur dioxide, injury 1322	flower	monuron 8265
Tamarind fruit, aroma 7171	biology 320	simazine 8265
Tamarind pests, Caryedon serratus,	Campsis × tagliabuana 320 Rosa spp. 4705	toxicity dicamba 2495
Colombia 5666	sapogenins, content, <i>Dioscorea</i> spp. 1454	picloram 2495
Tamarix, growing, in containers, media	stomata, number, lily-of-the-valley 6188	hybrids, interspecific 6456
4689 Tamus communis, hydrocarbons 4775	Tea	insecticides
Tanacetum spp.	aerial, spraying, general, deposits 4111	residues
carbon cycle 6319	alkaloids, metabolism 9279	arsenic 3329
flower, glycosides, content 760	aluminium, content, nitrogen nutrition	binapacryl 4898
Tangelo	6457	dicofol 4898
enzyme activity, fruit abscission layer,	amines, metabolism 9279	dinocap 4898
growth substances, cycloheximide	amino acids	leaf BHC 4900
2405 ethylene, fruit, pigments 4814	content, plant 6462 metabolism 9279	DDT 4900
as a pollinator, tangor 9102	annual report	plant, methomyl 2507
temperature, fruit, pigments 4814	Burundi 4031–4032	soil
Tangelo diseases, Alternaria citri, fruit	East Africa 8188	BHC 4900
storage 5574	India 1657	DDT 4900
Tangelo fruit	Kenya 7264	iron, content, nitrogen nutrition 6457
ethylene, production, growth substances,	Malawi 6454–6455	irrigation
cycloheximide 2405	Sri Lanka 8262 arsenic, determination, neutron activation	economics 856 requirements 429, 855
loosening, growth substances, cycloheximide 2405	analysis 4108	determination 856
pigments, biosynthesis, ethylene,	breeding and selection 1659, 3262	magnesium, content, root, nitrogen
temperature 4814	caffeine	nutrition 8270
Tangelo growth substances	biosynthesis 4906	manganese
enzyme activity, cycloheximide 2405	content, leaf, varietal differences 7271	content
ethylene production, cycloheximide 2405	structure 4114	nitrogen nutrition 6457
fruit, loosening, cycloheximide 2405	calcium, content, root, nitrogen nutrition	root, nitrogen nutrition 8270
Tangor	8270	as medicinal plants 6467
pollination 9102	carbohydrates	mulching foliage, plant nutrition 7267
cross- and self-compared, fruit set 9102	content post-prune growth 3283	grass, disease incidence 5662
Tangor fruit	pruning and training 8267	grass cuttings, soil conservation 8269
-seed relationships, growth studies 9102	catechins	materials compared 7268
set, pollination 9102	biosynthesis 3282	peat 3266, 9274
Tangor seed	content	plastic, disease incidence 5662
-fruit relationships, growth studies 9102	leaf	prunings, plant nutrition 7267
number, pollination 9102	nitrogen nutrition 6466	rubber sheeting 3266, 9274
Tannins	varietal differences 7271	soil
content fruit	magnesium nutrition 3286 virus control 3290	conservation 8269 temperature 3266
geographical location, apple 6600	cell wall, composition, leaf 6464	phosphorus
seasonal variations, persimmon 2432	climate	content
leaf, varietal differences, tea 7271	Malawi 8264	leaf 8271
Tapajosa rubromarginata, biological control,	microclimate 8264	nitrogen nutrition 6457
sugar cane pests 5655	clones 1660, 3262, 3288	plant, aluminium nutrition 6458
Taphrina deformans	drought resistance 5660	root, nitrogen nutrition 8270
control, peach diseases 7448	leaf composition 8278	translocation 4113
host enzyme activity, peach diseases 5771	pest resistance, Xyleborus fornicatus 4899	photosynthesis and photosynthesis
peach diseases, annual report, German	Tocklai 854	photosynthesis herbicides 8265
Federal Republic 6506	cover crops	water relations 4112
resistance, own-rooted plants, peach	Eragrostis spp., soil conservation 8269	pigments, content, leaf, storage 4116
diseases 7443	plant nutrition 7267	plucking .
Tapinanthus spp, growing on, cacao, annual	Stylosanthes spp., soil conservation	methods 3284
report, Ghana 7177	8269	shoot, growth 4905
Taraxacum spp.	dormancy, root-shoot relationships 6461	potassium
as a salad crop 8817 weed control 8817	enzyme activity cations 4903	nitrogen nutrition 6457
as weeds, lawns and sports turf 3892	leaf 4904	plant, aluminium nutrition 6458
Tarsonemus fragariae	development 5664	root, nitrogen nutrition 8270
control, strawberry pests 8516	senescence 5664	processing, leaf, chlorophyll content
strawberry pests 1075	plant, herbicides 8265	3287
T. pallidus, strawberry pests, annual report,	flavonols, biosynthesis 3282	products and by-products 6467
German Federal Republic 5094	fluorine, content, leaf 6465	saponins 6468–6469
Taxonomy	fungicides, absorption, benomyl 6460	seed cake 8048
chemotaxonomy Aesculus spp. 8957	growing Australia 2479, 9269	seed oil 6468, 8048 pruning and training 3267, 3269
Angelica spp. 5519	Burundi 3261	disease incidence, Phomopsis theae
Aster spp. 3857	India 1661, 7265	5662
Echinoideae 4727	grubbing, equipment 854	flower bud, initiation 3268
Lindera spp 5498	harvesting	leaf bud, development 3268
mint 9000	mechanical	mechanical, equipment 3285
ornamental plants 6233	annual report, USA 1530	methods compared 3270-3271, 7269
Picea pungens 2983 vegetables 6233	equipment 3285	8267
cytotaxonomy 1700	time of, leaf quality 8277 herbicides	post-prune growth, starch content 3283
Brunsvigia spp. 6182	enzyme activity	root growth 8268
Cyamopsis spp. 6858	monuron 8265	time of 8266
Hibiscus spp. 4720	simazine 8265	young bushes 3272
monocotyledons 3905	leaf	quinones 4908
nerine 6182	tannins	rainfall
ornamentals 266	content	leaf, quality 8279
enzymes	monuron 8265	microclimate 8264
apricot 7419 Prunus mume 7419	simazine 8265 photosynthesis	shoot, growth 4901, 4905 replanting 854
essential oil	monuron 8265	respiration
Myricaceae 9003	simazine 8265	herbicides 8265

TD 4.7	F71	
Tea contd.	Tea nutrition contd.	Tea shoot contd.
respiration contd.	nitrogen contd.	phosphorus, content 4113
leaf, nitrogen nutrition 3281	disease development, Phomopsis theae	-root relationships, dormancy 6461
root, nitrogen nutrition 3281	5662	Tea soil
samples, harvesting, preparation and	leaf	
manufacture 1658		amendments, compost, seed germination
	amino acids, content 3289	3263
sap, composition 4907	composition 6466	conservation 9270
shade 9271	pigments 3287	cover crops 8269
disease incidence, Phomopsis theae	nutrient availability 3274	mulching 8269
. 5662	phosphorus content 7267	cultivation
nutrition, annual report, Kenya 7264	respiration	machines 3285
trees, establishment 9271	leaf 3281	methods compared 9274
spraying, aerial, general, deposits 4111	root 3281	erosion 9270
stomata, movements, rainfall 8264	sources	control
tannins	compared 6457, 8270, 9276	
		tropics
content	leaf quality 9275	Eragrostis spp. 8269
leaf	nutrient absorption 6457	Stylosanthes spp. 8269
nitrogen nutrition 6466	nutrient availability 3275	fumigation, nematodes, nurseries 431
varietal differences 7271	root composition 8270	management, methods compared 9274
transpiration, water relations 4112	root growth 8270	temperature, mulching 3266
water relations	NPK 3273, 6457, 9277	Tea varieties
growth studies 4112	annual report, Sarawak 4036	Florida 1659
physiology 4112	disease incidence 4897	leaf
weed control 2495, 4106, 5661, 8265,	phosphorus 4107, 7267, 8271	composition 7271
9272–9274	absorption 4113	quality 8279
drains 4896	aluminium nutrition 6458	
		tannins, content 8279
mulching 7268	placement 3276	Tecoma radicans, alkaloids, content 2308
plant nutrition 7267	sources, compared 7270	Tecophilaea spp., tuliposides 8908
review 8120-8121	potassium 1662, 3277–3278, 4107	Telenomus aclecto, parasite of, Chilo
Tea diseases	absorption, aluminium nutrition 6458	enfuscatellus, sugar cane 1641
Calonectria kyotensis 4109	deficiency, diagnosis 3277	Tellurium, toxicity, cucumber and gherkin
control 9278	disease development, Phomopsis theae	157
Cercospora spp. 6459	5662	Temperate crops, fungicides, disease contr
Colletotrichum camelliae, NPK nutrition	leaf analysis 1662	copper, review 1694
4897	sulphur, leaf analysis 3173	Temperature (see also Frost)
Cylindrocarpon destructans 430	zinc 1663, 9277	anthocyanins, biosynthesis, cranberry
Cylindrocladium lanceolatum, control	annual report, Rhodesia 4829	8498
9278		
	Tea pests 1696	bolting, leek 5300
C. tenue, control 9278	Brevipalpus phoenicis 4898	boron, absorption, sugar cane 4102
Exobasidium vexans, control 8272-8273	control 8274	bud
incidence, environmental factors 9270	B. spp. 5663	development
Pestalozzia theae, NPK nutrition 4897	ecological studies 9270	apple 1709
Phomopsis theae	insects, control, review 1532	apricot 1709
control, cultural methods 5662	mites 3324	cherry 1709
fungicides, absorption 6460	nematodes, nursery soil treatment 431	peach 1709
Tea flower	Niphadolepis alianta 4110	pear 1709
bud initiation 4902	Parametriotes theae 3280	plum 1709
pruning and training 3268	control, cultural methods 3279	bud break
Tea growth substances	Pratylenchus loosi 3317	forecasting, apple 2592
dormancy	Sparganothis pilleriana, control, cultural	grapevine 583
breaking	methods 3279	bulb, development, leek 5300
GA 6461	Tortrix politana, control, cultural methods	carbohydrates, content, okra 8749
kinetin 6461	3279	celery 8815
shoot, growth, GA 4901	Toxoptera aurantii, control, cultural	chloroplast
Tea leaf	methods 3279	number, spinach 4394
amino acids, content, nitrogen nutrition	Xyleborus fornicatus 8275	size, spinach 4394
3289	clonal susceptibility 4899	corm, development, freesia 8891
bacteria 1664	Tea plant, composition, review 8276	disease incidence
bud development, pruning and training	Tea propagation	azalea 6225
	cuttings 1660, 3265	bulb storage, onion 7753
3268		
carbohydrates, content, water relations	under hessian 8263	Curvularia trifolii, gladiolus 5423
4112	leaf removal 7266	Leveillula taurica, tomato 8781
composition	media 2480	Peronospora destructor, onion 3763
clonal variations 8278	subsoil 4895	4523
flavanols 6463	top-soil 4895	P. parasitica, cabbage 8622
nitrogen nutrition 6466	under plastic 8263	disorder incidence
seasonal variations 432	in plastic bags 8263	petal blueing, rose 7949
varietal differences 7271	shoot, size 7266	watercore, apple 8384
development, enzyme activity 4904	soil, temperature 8263	dormancy
flavanols, oxidation, biochemistry 1665	treatment, growth substances 3264	breaking
phosphorus, content 4113	grafting 1660	artichoke, jerusalem 2749
	nurseries	fruit trees and plants 907
pigments, nitrogen nutrition 3287		dwarfing, oleander 3932
quality	management, India 1661	essential oil, content, rose 5471
harvesting time 8277	nutrition 3273	
nitrogen nutrition 9275	Tea root	fatty acids, biosynthesis, cacao 3186
pruning and training 7269	anatomy 3172	flower
storage	composition, seasonal variations 432	development
controlled atmosphere 4115	development, water relations 4112	azalea 2289
pigments 4116	growth, pruning and training 8268	mango 3230
tannins, content, herbicides 8265	nitrogen, content, nitrogen nutrition	tomato 2132
water, content, water relations 4112	3274	malformation, mango 3230
Tea nutrition	phosphorus, content 4113	number, rose 8953
	-shoot relationships, dormancy 6461	quality, carnation 6968
aluminium 6458		sex, cucumber and gherkin 6832
boron 9277	systems, phosphorus, placement 3276	
general, leaf analysis, methods compared	Tea seed	size, rose 8953
3302	germination	flower bud
green manures 9274	shade 3263	drop, peach 8461
magnesium	soil, amendments, compost 3263	initiation
leaf, catechins, content 3286	oil, composition 8048	alstroemeria 6990
yield reduction 9277	production 1660	azalea 2289
manganese 9277	Tea shade, seed, germination 3263	begonia 1356
molybdenum 9277	Tea shoot	caraway 6249
nitrogen 7267, 9277	composition, seasonal variations 432	cauliflower and broccoli 6800

Temperature contd.	Temperature contd.	Temperature contd.
flower bud contd.	leaf	sunlight, flowering, date, grapevine 586
initiation contd.	chlorophyll	transpiration
eggplant 8762	content mandarin and tangerine 6352	apricot 8426
Eucharis grandiflora 8909 iris 297	tomato 5990	pineapple 8174 varietal behaviour
Kalanchoe spp. 3902	of leaf, environmental factors, grapevine	apple 2540
okra 8749	7582	black currant 5803
olive 818	leaf	water relations
ornamentals 6200	environmental factors, squash 6825	apricot 8426
Schlumbergera spp. 309	phosphorus, content, pea 2060	sugar cane 4102
statice 2940	photosynthesis, tree fruits 7325	tomato 7804
tulip 297	of leaf, transpiration, grapevine 7582	winter hardiness, tree fruits, annual
flowering	measurement	report, Canada 8314
Aeschynanthus spp. 7951 alstroemeria 6990	microclimate, citrus 5549 petiole, saintpaulia 2935	Tenuipalpus japonicus, persimmon pests 821
Asclepias spp. 7952	soil 4127	Tephrosia purpurea, weeds controlled by,
date	modification apparatus, fruit trees and	Eupatoria odorata, coconut 8140
carnation 6968	plants 906	T. spp, pests, Etiella zinckenella 1422
Limonium spp. 6996	nitrate accumulation, spinach 2746	T. vogelii
Eucharis grandiflora 8909	nutrient translocation, bean (<i>Phaseolus</i>)	growing 765
Euphorbia fulgens 6237	2028	economics 765
forecasting, apple 2592	phosphorus, metabolism, apple 7401	Termites, tea pests, annual report, Sri Lanka 8262
fruit acidity, grapevine 1081, 6725	photosynthesis bean (<i>Phaseolus</i>) 5984	Tetradonema plicans, parasite of, sciarid
colour, tomato 8805	greenhouse crops 5683	flies, mushroom 7836
composition, tomato 5369	plant	Tetragonia spp., ozone, injury 4392
coumarins, content, Ammi spp. 782	composition, essential oil, mint, annual	Tetranychus arabicus, seed, treatment,
development, pear 6648	report, USA 324	squash pests 630
of fruit, environmental factors, grapevine	development, lettuce 8611	T. cinnabarinus, seed, treatment, squash
7582	pollen tube, growth, pear 6648	pests 630
fruit	protein, biosynthesis, apple 50	T. cucurbitae, eggplant pests 1275
growth, apple 6597	pruning and training, time of, apple	Tetranychus lombardinii, banana pests 4835, 6388
nitrogen, content, tomato 8805	8368 rainfall, correlation, fruit, yield, grapevine	T. mcdanieli, apple pests 46
peel thickness, grapefruit 5548 pigments	562	T. pacificus
biosynthesis, grapevine 3595	recording techniques, citrus, annual	biological control, peach pests 81
orange 4814	report, USA 790	grapevine pests 1920
tangelo 4814	respiration	peach pests 81
quality, tomato 4566	celery 2901	predator-prey relationships, grapevine
ripening, grapevine 6725	greenhouse crops 5683	pests 1920
set	kohl-rabi 6799	T. pieroei, boron nutrition, oil palm pests
black currant 5803	rhubarb 2901	6411 T onn
cacao 1549 plum 8477	responses cyclamen 5421	carnation pests, annual report, Denmark
time from flowering, grapevine 587	freesia 7898	3298
tomato 5340	tomato 2133	control
shape, grapefruit 5548	vegetables, annual report, Irish	cucumber and gherkin pests 5222
size, tomato 4566	Republic 5150	Cucumis melo var. flexuosus, pests
of fruit, transpiration, grapevine 7582	root	5222
fruit disorders, pear 1841	development	gerbera pests, annual report, Denmark
fruiting, precocity, cucumber and gherkin 1995	tomato 2882	3298
growth	trees and shrubs, annual report, USA 3835	grapevine pests, annual report, Belgium 3559
chrysanthemum 272	growth	T. telarius
under glass, cucumber and gherkin	begonia 6168	acaricides
2767	leek 5300	resistance 18
lettuce 1973	sugars, content, sugar cane, annual	chrysanthemum pests 6974
under plastic, cucumber and gherkin	report, USA 9221	apple pests 5738
2767	seed	annual report
tomato 3811	development, pea 5274	Australia 5693
growth studies lettuce 8610	disorder incidence, pea 5274 seedling emergence 4447	UK 8318 hean (Phasealus) nests 1216 4383
mushroom 6957	seedling production	bean (<i>Phaseolus</i>) pests 1216, 4383 biological control, cucumber and gherkin
growth substances, endogenous,	annuals 276	pests 3685
cauliflower and broccoli 3667	bedding plants 8843	control
interaction	cineraria 8843	apple pests 7391
growth substances	petunia 8843	chrysanthemum pests 6973, 6975
oleander 3932	pot plants 8843	cut flowers, chrysanthemum pests
orange 5572	shoot	6976
tissue culture, artichoke,jerusalem 8597	development, tomato 2882	eggplant pests 7768 fungicides, benomyl, bean (<i>Phaseolus</i>)
light	growth apple 6597	pests 5253
growth, bean (<i>Phaseolus</i>) 7716	begonia 6168	grapevine pests 7580
intensity	stomata	damage, cold injury, raspberry pests
lettuce 1973	mechanism, onion 1250	2684
rose 6230	movements, apricot 8426	eggplant pests 4383
photosynthesis, bean (<i>Phaseolus</i>)	sucrose, content, sugar cane 404, 4088	garlic pests 228
7716 tomato 2132	sugars, metabolism, pea 2058	hop pests, annual report, German Federa
nutrition, tomato 2132	sums bean (<i>Phaseolus</i>) 2787	Republic 7064 integrated control
photoperiodism	disorder incidence, orange 807	cucumber and gherkin pests 7802
tagetes 2217	flowering	hop pests 7093
begonia 1356, 6168	black currant 4312, 5803	tomato pests 7802
lettuce 1975	date	irrigation, peach pests 1820, 5033
Malvaviscus arboreus 5484	forecasting	onion pests 228
onion 602	apple 4961	pear pests 455, 5738
ornamentals 6200 rose 6230	fruit trees and plants 2379	predators
juvenility	fruiting, date, forecasting, fruit trees and plants 2379	annual report, UK 8583
cauliflower and broccoli 7644	grapevine 557	Phytoseiulus persimilis cucumber and gherkin pests 1193,
ivy 6217	macadamia 5590	7687
latitude 5678	pollen, production, hazel 3454	rose pests 4711

Subject Index		1117
Tetranychus telarius contd.	Tissue culture contd.	Tissue culture contd.
rose pests 4710, 4712, 8954	anther contd.	cotyledons contd.
strawberry pests	lily 292	lettuce 139
annual report	ornamental plants, annual report, UK	pumpkin 5229
Belgium 1060 Canada 2669	3832	radish 1181, 6804
UK 3552	propagation, cauliflower and broccoli, annual report, Italy 6771	sucrose treatment, radish 153
USA 6692	vegetables, annual report, UK 3612	cytokinin activity, pea 6017 diseased leaves, cucumber and gherkin
varietal resistance	apices, cymbidium 311	2004
strawberry pests 6694	axillary buds	embryo
tomato pests 1291	growth substances, treatment, iris	apple 2591
vegetables, pests 4539 Tetraploid plants , stomata, size, spinach	5425 media, iris 5425	citrus 1471
125	bud	coffee 8155
Tetrastichus spp., parasite of, Thomasiniana	apple 1779	endosperm tissue, <i>Citrus junos</i> 7127 exudates, pea 4499
theobaldi, raspberry 2688	capsicum 5326	growth substances
Thalictrum aquilegifolium	bulb scales, lily 731	metabolism, bean (Phaseolus)
glycosides biosynthesis 2208	callus alkaloids, biosynthesis, <i>Datura</i> spp.	2803–2804
content 2209	9035	treatment
T. minus, alkaloids 6320	apple, carbon sources 972	citrus 6333
T. rugosum, alkaloids, content 2370	chlorophyll	Protea spp. 6243
Thecla basilides, pineapple pests 6417	biosynthesis, orchids 7029	holly 4692
Theobroma spp., breeding and selection 4838	content, Ruta spp. 9053 metabolism, Ruta spp. 9053	media apple 2546
Thielaviopsis basicola	coumarins, biosynthesis, Ruta spp.	cherry 7432
bean (Phaseolus) diseases 5255	9051	citrus 6333
cherry diseases, annual report, UK 8318	cyanide toxicity	lemon 3142
cyclamen diseases, annual report,	peach 4260	pear 2546
Netherlands 6126	Prunus besseyi 4260	oil palm 1605
T. paradoxa, pineapple diseases 9201 T. spp.	P. tomentosa 4260 Datura spp., melanogenesis 1433	peach 5772 pear 2591
pineapple diseases 3249	grafting compatibility studies, fruit trees	propagation
valerian diseases 8047	and plants 3567	cherry 8431
Thomasiniana oculiperda, apple pests 2582	growth substances, treatment, Datura	date 8106
T. theobaldi	spp. 9036	stone fruits 7313
integrated control, raspberry pests 2688	media, chrysanthemum 2927 media analysis, <i>Apocynum cannabinum</i>	temperature, cherry 7427
parasites, <i>Tetrastichus</i> spp., raspberry pests 2688	2345	embryogenesis Citrus spp. 8087
Thrips angusticeps, pea pests, annual report,	pigments, biosynthesis, orchids 7029	oxygen concentration, carrot 4593
ÚK 3611	quinones, Cassia angustifolia 9027	flower
T. flavus, vectors, Botrytis fabae, bean	sugar cane 4087	growth substances, treatment,
(Vicia) pests 8708	terpenes Posts	Haworthia spp. 2271
T. florum, varietal resistance, banana pests 381	content, Ruta spp. 9053 metabolism, Ruta spp. 9053	Haworthia spp. 2271 media, Haworthia spp. 2271
T. imaginis, apple pests, annual report,	tissue analysis, Apocynum cannabinum	flower bud
Australia 5693	2345	growth substances, aquilegia 3856
T. spp., biological control, cucumber and	cambial tissues, propagation, salinity	petunia 8872
gherkin pests 5051	tolerance, carrot 8812	fruit cells, lemon 1496
T. tabaci, leek pests 662	cambium, growth inhibition, phenolic	growth substances determination. Viscoria
T. tabaci biological control, cucumber and gherkin	compounds, cherry 8442 capitulum, pyrethrum 9012	growth substances, determination, Viscaria candida 7026
pests 3685	cell suspension	hypocotyl, pumpkin 5229
control	antimicrobial activity, hemp (Cannabis)	leaf
cucumber and gherkin pests 5222	9025	beetroot 1150
Cucumis melo var. flexuosus, pests	carbon dioxide requirements, rose 8955	chloroplast, number, spinach 4394 growth substances
5222 onion pests, annual report, Australia	carrot 1306, 7819	treatment
5882	cell aggregation, rose 8956	petunia 7871
seed, treatment, squash pests 630	choline, hemp (Cannabis) 9025	Streptocarpus spp. 7890
Thuja spp.	fatty acids	herbicides, treatment, sugar cane 7253
dormancy, phosphorus, absorption 3909	metabolism <i>Atropa belladonna</i> 8591	media
growing, in containers, media 4689 phosphorus, absorption, dormancy 3909	bean (Phaseolus) 8591	Epidendrum spp. 6207 Laeliocattleya spp. 6207
Thyme	carrot 8591	mother plant treatment, Streptocarpus
essential oil 4738	hemp (Cannabis) 8591	spp. 7890
determination 7991	Ipomoea spp. 8591	photosynthesis, measurement, cucumber
volatile constituents 1414	glycosides, biosynthesis, parsley 8983 growth studies, <i>Pogostemon</i> spp. 7083	and gherkin 4457 pigments
Thyridomyia spp., pollinator, cacao 5612 Tigridia spp.	growth substances, treatment, rose	biosynthesis, hydrangea 7055
seed	8956	degradation, cucumber and gherkin
composition 2943	media, sugar cane 2476	4459
oil 2943	media analysis, Apocynum cannabinum	potassium
Tillandsia spp.	2345 media pH, rose 8955	absorption, bean (<i>Phaseolus</i>) 8697 metabolism, bean (<i>Phaseolus</i>) 7711
photosynthesis 305 trichome, anatomy, morphology 6199	nutrient absorption, <i>Pogostemon</i> spp.	propagation
Tissue culture	7083	cauliflower and broccoli, annual
alkaloids	parsley 4732	report, Italy 6771
biosynthesis	phenolic compounds, hemp (Cannabis)	chicory 3638
growth substances	9025	Rauwolfia spp. 351 rhubarb 5318
Datura spp. 2333 Rauwolfia spp. 2333	pigments, biosynthesis, rose 1394–1395 sugar cane 403	rubidium, absorption, bean (<i>Phaseolus</i>)
Scopolia spp. 2333	sugars, metabolism, bean (<i>Phaseolus</i>)	8697
production 2555	2805	sodium, absorption, bean (Phaseolus)
Atropa belladonna 6287	tissue analysis, Apocynum cannabinum	8697
Catharanthus roseus 7102	2345	temperature, Streptocarpus spp. 7890
Datura spp. 1439, 3969	cells, enzyme activity, carrot 694 chloroplasts	leaf abscission layer, ethylene treatment, bean (<i>Phaseolus</i>) 5259
fenugreek 4778 Rauwolfia spp. 5531	bean (Vicia) 128	leaf cells, callus formation, asparagus
anther	spinach 128	8734
growth substances, treatment, asparagus	cotyledons	media, Datura spp. 1439
8735	cucumber and gherkin 163	meristem
haploid plants, tomato 4582	growth substances, pumpkin 2780	apple 4184

Fissue culture contd.	Tissue culture contd.	Tomato contd.
meristem contd.	shoot contd.	annual report contd.
asparagus, annual report, Belgium	electrical activity, pumpkin 5224	India 3607
hulbs appual report III 3874	enzyme activity, asparagus 6020 fusicoccin	Irish Republic 1939, 5150 Israel 3608
bulbs, annual report, UK 3874 molybdenum treatment, carnation 717	treatment	Italy 6771
nitrogen treatment, carnation 717	media pH, pea 8727	Malawi 8580
ornamental plants	respiration, pea 8728	Netherlands 1135, 5151, 6772, 8581
annual report	grapevine 1930, 2552	New Zealand 5152
Belgium 5386	growth substances	Sabah 8582
Italy 6960 strawberry	concentration, root development, Prunus spp. 4240	St. Lucia 8577 UK 1937, 3610, 3612–3613, 4366,
annual report	treatment	5149, 5154, 5884–5885, 6774,
Belgium 5071	media pH, pea 8727	8583–8584
Netherlands 5073	pea 6868	USA 1130, 1935, 3618, 4368, 7601,
virus-free plants, grapevine 7554 mesocarp	petunia 7871 respiration, pea 8728	8585 Zambia 8587
carbon dioxide, treatment, peach 4261	light, Cymbidium spp. 2272	ascorbic acid
ethylene, treatment, peach 4261	media	content
growth substances, treatment, peach	calamondin 3103	humic acid 684
4261 mutation induction, sugar cane, annual	Cymbidium spp. 2272 phenols, metabolism, root development,	breeding and selection 5333
report, USA 9221	Prunus spp. 4240	annual report, USA 3616
nucellus	red currant 2552	disease resistance 2859
citrus 1471	root development, <i>Prunus</i> spp. 4240	Cladosporium fulvum 2111
growth substances, treatment, citrus 6333	shoot-tip carnation 2919, 2923	Fusarium oxysporum f. lycopersici 2111
media, citrus 6333	chrysanthemum 1331, 2184	Phytophthora infestans 6900
ovary, cucumber and gherkin 3693	growth substances	P. spp. 672
petals, Impatiens spp 284	treatment	Pyrenochaeta lycopersici 2109
pistil, antirrhinum 8873	apple 3419 oil palm 1604, 6413	virus 2916 Xanthomonas vesicatoria 2110
herbicides, treatment, sugar cane 7253	herbicides, treatment, sugar cane 7253	early fruiting 6054
xylem formation, growth substances,	leaf bud development, pea 2064	fruit
lettuce 7635	lily . 731	acidity 2892
pollen antirrhinum 8873	media gladiolus 7005	colour 257 set 2133
Atropa belladonna 9022	oil palm 6413	F ₁ hybrids, annual report, USA 3617
lily 1363	orchid 1380	haploid clones 6929
ornamentals 707	propagation, date 8106	herbicide tolerance 4549
petunia 6153 tomato 6929	virus control, hydrangea 7054 virus-free plants, grapevine 7554	pest resistance 2859 Drosophila spp. 5335
polyembryony induction	stem	report, USA 1940
Ammi spp. 1447	growth substances	seed, germination time 4556
<i>Ilex</i> spp. 3911	treatment	bromine
protocorm	asparagus 2080 carnation 7849	content
growth substances, treatment, Cymbidium spp. 6205	media, asparagus 2080	fruit, soil fumigation, methyl bromide 8789
media, <i>Cymbidium</i> spp. 6206	stem cells, rose 319	leaf, soil fumigation, methyl bromide
propagation, Cymbidium spp. 8935	tissues	8789
protoplast 4146	growth substances, treatment, carrot 8813	cadmium, determination 4389 calcium
petunia, callus formation 6154	light, carrot 8813	content
aging, media, tomato 5360	media	plant 8702
alkaloids, biosynthesis, tomato 2129	carrot 8813	diseases 7798
carrot 259–260, 1307, 6945 enzyme activity 2140	Catharanthus roseus 7102 photosynthesis, carrot 8813	carbohydrates biosynthesis, storage 8803
cell, division, growth substances, radish	tuber	metabolism, diseased plants 3803
3673	amino acids, metabolism, artichoke,	carbon dioxide
coumarins, biosynthesis, Ruta	jerusalem 7620	supplementary
graveolens 9052 electrical activity, pumpkin 5224	artichoke, jerusalem 6786 growth substances	fruit quality 4566
enzyme activity, carrot 694	artichoke, jerusalem 8599	size 4566
Epidendrum spp. 4683	treatment, artichoke, jerusalem 8597	seedling raising 2880
growth substances treatment	phytochrome, metabolism, artichoke,	chlorine, translocation 2126
pea 6010	jerusalem 7620 root development, artichoke, jerusalem	chlorophyll bibsynthesis, storage 8803
radish 5940	8600	content
vegetables 2073	sterols, biosynthesis, artichoke,	iron nutrition 7789
media, Atropa belladonna 6287 nutrient absorption	jerusalem 1960	leaf
growth substances	temperature, artichoke, jerusalem 8597 xylem, formation, artichoke, jerusalem	herbicides 6926 soil salinity 6926
beetroot 1956	3631	plant nutrition 6077
swede 1956	tuber slices, artichoke, jerusalem	temperature 5990
inhibition, beetroot 5171 oil palm 2458	130–131 vegetables 121	chloroplast, proteins, content, zinc deficiency 4564
pea pea	Tithonia spp., seed, germination 725	cold, resistance, growth substances 6100
composition 658	Tomato	cytology, vegetative apices, floral apices,
meristem structure 658	amides, degradation, <i>Phoma destructiva</i>	petals 2855
respiration carrot 4592	4573 amino acids	darkness nitrogen, content 5356
salinity, carrot 6944	content, root, cobalt nutrition 8772	nucleic acids, content 5356
senescence, radish 5940	degradation, Phoma destructiva 4573	plant, nutrition 5356
root callus, bud formation, chicory 8602	determination, paper chromatography	drought 2474
root discs, beetroot 123 saponins, production, extraction methods,	8807 metabolism 255	leaf, composition 2474 electric current
Dioscorea spp. 6296	annual report	growth, stimulation 688
seed callus	Australia 5882, 6769, 7596	plant, weight 688
media, fenugreek 4778	Austria 114	enzyme activity 7796
vitamin B, treatment, fenugreek 4778 shoot	Belgium 1131, 4363 Canada 1944, 2734, 5883	diseased plants 1296, 3788, 6084–608: Fusarium oxysporum, f. lycopersici
apple 2552	Cyprus 3604	7796
black currant 2552	German Federal Republic 7597-7598	Pythium spp. 8791

adject macx		11.
omato contd.	Tomato contd.	Tomato contd.
enzyme activity contd.	growing contd.	insecticides contd.
fertilizers, algae 6098	peat contd.	residues contd.
fruit 256	nutrition contd.	fruit contd.
development 5664	minor elements 4382	dimethyl phosphoroamidothioate
organic acids, metabolism, tissue	molybdenum 7628	8788
culture 1298	recommendations 608	plant 7777
ripening 88, 5362, 5366, 5664, 8793	review 7783	determination 3330
growth substances 5361, 8799	steaming 1284	iron, absorption, leaf, surfactants 4562
humic acid 684	perlite 8773	irradiation
iron, deficiency 7789 leaf	under plastic 679, 2499 annual report, UK 6773	gamma rays fruit, ripening 4580
determination 5897	fruit, composition 4579	injury, reduction, algal extracts
development 5362	in plastic tubes, perlite 7781	6097
growth substances 6102	in pots 2115	plant, height 4580
light intensity, disease resistance	protected cultivation 2159, 5159	irrigation 3308
4575	Scotland 5332	drip 3624
nutrient deficiency diagnosis 1145	straw bales 1142	furrow 6070
plant herbicides 6926	troughs 6910 Tunisia 4369	requirements 1293, 2118, 6070
soil salinity 6926	tunnels	for processing 7778 salinity problems 4376
root 8792	plastic 5166	soil, amendments 7784
shoot 2127	water conservation 3799	sprinkler 437, 3624, 4376, 6070
soil salinity 8778	wax paper 2113-2114	trickle 4376
enzymes	growth	water, composition 5163
characterization, seed, heterosis 3810	seed, size, shape, position in fruit 6061	lead
fruit 2883	temperature 3811	determination 4389
inhibitors, wounded leaves 8790	growth studies	residues 4936
ethylene, production, fusaric acid 5358	inoculation, Fusarium spp. 6038	light
flooding 2474 leaf, composition 2474	temperature 2882 harvesting	coloured disease resistance 4575
flowering	mechanical 2889	enzyme activity 4575
date	equipment 2888, 3819	duration, leaf, senescence, amino acids
growth substances 6093	planting, spacing 239	content 1297
plant nutrition 8773	once-over 1282, 4584	far red, photosynthesis 7806
growth substances 7807	time of, nitrogen nutrition 6910	infra-red
temperature sums 5340	herbicides	fruit
fluorine, toxicity, calcium nutrition 6932	application, irrigation 6905	colour 8797
frost, protection, foam 8768 fruiting	determination 7777 enzyme activity, pentanochlor 6926	ripening 8797 intensity
date	injury	disease resistance 4575
plant nutrition 8773	bensulide 6904	enzyme activity 4575
pruning and training 7780	chlorambenmethyl 6904	flower, development 2132, 6931
fungicide and insecticide mixtures, injury	humidity, diphenamid 3797	nitrogen nutrition 6908-6909
1288	light intensity, diphenamid 3797	plant composition 6064
fungicides	metabromuron 7776	potassium nutrition 6908–6909
application	pebulate 6904	red, photosynthesis 7806
general, adjuvants 5686	potassium azide 6068 trifluralin 8770	supplementary, seedling raising 2880 6096
methods compared, benomyl 6919 wax coatings	plant, composition 6067	ultra-violet
captan 6105	residues	fruit
Dithane M45 6105	diquat 6905	colour 8797
sodium o-phenyl phenate 6105	fruit, vernolate 1698	ripening 8797
thiram 6105	paraquat 6905	magnesium, content, plant 8702
residues	respiration, 2,4-DNP 6922	manganese
determination, quintozene 3331	responses	content
leaf, streptomycin 2125	DCPA 2867	leaf
translocation Terrazole 6086	trifluralin 6066 testing 252	iron nutrition 7789 soil sterilization 240
thiabendazole 6086	tolerance	plant
glycosides	dinitroanilines 1267	nitrogen nutrition 4563
content	diphenamid 4549	soil steaming 8606
growth substances 8794	humates	mulching 1282
nitrogen nutrition 8794	media constituent	paper 6071
growing	nutrient solutions 8774	disease incidence 4570
Bulgaria 1278, 3620–3621	soil 8774 humidity, relative, disease incidence,	plastic coated 4559
frames 2737	Leveillula taurica 8781	wax coated 4559 plastic 4377, 6071, 7779
under glass 1139 annual report, UK 6773	hybrids	annual report, Netherlands 1132
artificial illumination 877	disease resistance, <i>Phytophthora</i> spp.	disease incidence 4570
economics 5156-5157	672	weed control 3798
Netherlands 2105	seed, germination 4556	sawdust 7779
fruit, composition 4565	insecticide and fungicide mixtures, injury	mutagens
heating, infra-red 4134	1288	dimethylsulphate 7769
labour requirements 5156-5157	insecticides	N-nitrosomethylurea 7769
leaf, composition 4565	application, methods compared 4576 injury 2123	mutants ethylene requirements 3814
pest control 3627	carbamates 2742	induction 2857, 5334
in greenhouses 5332, 7604 glass, plastic 2738	carbaryl 1288	nematicides, pest population increase,
Hungary, for processing 7778	Cygon 4576	aldicarb 7800
as an intercrop, pineapple 9198	DS-15647 4576	nitrite, toxicity 5893
Italy, for processing 6901	Furadan 4576	nitrogen
mechanical harvesting 2889	methidathion 3808	content
media	naled 2122	plant
coal dust 7604 7605	persistence, Temik 4577	potassium nutrition 6909 seasonal variations 6909
compared 7604–7605	residues 3328 aldicarb 1292	nucleic acids
peatlite mix 6063 Netherlands, disease incidence 6087	arsenic 3329	biosynthesis, plant, salinity 6927
outdoor and greenhouse compared	determination, monocrotophos 7302	content, plant, salinity 6927
1302, 4579	endosulfan 2124	nutrient absorption
peat 7604-7605, 7786	fruit	growth substances 6094
nutrition 1284	DDT 8787	nutrient solution 8774
calcium 6076	dieldrin 8787	pest incidence, Meloidogyne spp. 28

Tomato contd.	Tomato contd.	Tomato contd.
nutrient absorption contd.	rhizosphere	translocation, studies, excised roots 7805
soil, amendments 8774	micro-organisms	transpiration 6003
organic acids	phosphorus nutrition 8620	anti-transpirants 6093
content	population, cobalt 8772	evapo-, seasonal variations 5354
growth substances 5361	salinity	toxins, fusicoccin 4478 vitamins, content 3339
iron nutrition 7789	nucleic acids biosynthesis 6927	water, movement, excised roots 7805
packing plastic	content 6927	water potential, leaf, diseases, Fusarium
bags	seedling	spp. 6923
fruit	growth, soil, temperature 678	water relations
pigments 2136	production 2115, 8767	blossom-end rot 7790
ripening 2136	in greenhouses, plastic, economics	growth substances 6100, 6102
pectins, content, organic acids from peat	5339	pigment, content 254
6072	nutrition 6908–6909	plant, seed treatment 6062
phosphates	bare-root method 4557	soil relationships 7782 temperature 7804
metabolism, humic acid 684 translocation, curly top virus 1294	carbon dioxide, supplementary 2880	weed control 680–681, 1947–1948, 2078,
phosphorus	light, supplementary 2880, 6096	2116–2117, 2866, 3798, 4558,
absorption, pest incidence, Meloidogyne	media 4557	5341-5343, 5680, 6066, 6068-6069,
spp. 2878	under plastic 3796, 5338	6777–6778, 6903–6904, 7775–7776,
content, plant, diseases 3804, 7798	pots 4557	8588, 8769–8770
translocation, pest incidence,	made from plastic films 2865	review 6065
Meloidogyne spp. 2878	soil blocks 4557	yearbook, USA 2853
photoperiodism 2881 flower bud, initiation 6925	storage 2863 transport, containers, plastic 4375	Tomato diseases 3319 Agrobacterium radiobacter, biological
growth 6925	sodium, translocation 2126	control 443
photosynthate, translocation 6095	soilless culture	Alternaria solani, -nematode complex
photosynthesis	annual report, France 3605	2877
diseased plants 6095	container volume 682	A. spp.
far red light 7806	iron, sources 2845	incidence, Nigeria 5166
fruiting relationships 4579	media 6063	varietal resistance 4553, 6055
nitrogen nutrition 6907	re-use 6924	aucuba mosaic, host-pathogen
phosphorus nutrition 6907	sawdust 1285	relationships, growth substances 3815
physiology 4578 red light 7806	nutrient solution addition, humates 8774	bacterial soft rot, disease incidence 1287 big bud, control, cross protection 5349
soil moisture 6092	concentration 682, 5215	Botrytis cinerea 6917
physiology 869	mineral fertilizers 6075	control 8779
pigments	salinity 6912	host enzyme activity 1296
biosynthesis	spraying	nitrogen nutrition 5345
storage 8803	aerial 2876	potassium nutrition 5345
temperature 241	fungicide and insecticide mixtures,	bushy stunt
content, plant nutrition 6077	injury 1288	annual report, UK 4365
planting 2705	staking, wire mesh cages 2868	host phosphorus, content 3804
v direct sown, economics 3795	stomata movements, growth substances 6093	Cladosporium fulvum 2875, 4552 host reactions 5355
high density 6902 plant, size 2115	number, soil salinity 8778	resistance 2111, 2859
spacing 676, 3794, 5240	storage	varietal resistance 675, 1280, 3792,
fruit, number 1282	controlled atmosphere	7772
harvesting, mechanical 239	disease incidence 1287	Colletotrichum coccodes
time, India 677	fruit, ripening 6103, 8803	host-pathogen relationships 4569
pollen	hypobaric 6104	nemotode complex 8782
germination	hypobaric system 1705	varietal resistance 2107
calcium nutrition, fluorine toxicity 6932	dips, application, methods compared 6105	C. dematium pathogenicity 8515
fluorine toxicity, calcium nutrition	temperature	varietal resistance 2107
6932	disease incidence 1287	C. destructivum, varietal resistance 2107
viability, seed, treatment, irradiation,	fruit	C. fragariae, varietal resistance 2107
gamma rays 245	colour 7809	C. gloeosporioides, varietal resistance
pollination	composition 7809	2107
artificial, methods compared	firmness 7809	C. spp., aerial spraying, v ground spraying
5363-5364	weight loss 7809	2876
mechanical, methods compared 1301	respiration 2744	Corynebacterium michiganense
potassium content	sugars content, growth substances 5361	auxotrophic mutants 6915 control, cross protection 6916
leaf, nitrogen nutrition 6910	determination, fruit, methods compared	resistance 2859, 6916
plant 8702	2137	breeding and selection 2872
diseases 7798	temperature	survival on plant debris 2874
products and by-products, juice 4583	disease incidence, Leveillula taurica	cucumber mosaic virus, resistance 2859
proteins	8781	curly top
biosynthesis, nitrogen nutrition 249	flower, development 2132	host carbohydrates, metabolism 3803
content, chloroplast, zinc 4564 determination, paper chromatography	fruit colour 8805	varietal resistance 2871, 4551 curly top virus
8807	composition 5369	phosphates, translocation 1294
pruning and training 2856, 7780	nitrogen, content 8805	photosynthate translocation 6095
disease incidence, Pseudomonas	quality 4566	photosynthesis 6095
solanacearum 4568	set 5340	Didymella lycopersici 6083
fruit, size 7780	size 4566	Erwinia aroideae, varietal resistance
methods compared 6906	growth 3811	2873
topping 8771	leaf, chlorophyll, content 5990	E. spp., control 8780
trellis 6906 rainfall	responses 2133 root, development 2882	Fusarium oxysporum
disease incidence, Alternaria spp. 5166	shoot, development 2882	f. <i>lycopersici</i> 6919 control 6086, 8482, 8779
protection, plastic 5166	sums, flowering 5340	greenhouse disinfection 7795
respiration	water relations 7804	host enzyme activity 6084–6085,
fruit	tissue culture	7796
gamma rays 1504	anther, haploid plants 4582	host-pathogen relationships
storage 2744	pollen 6929	growth substances 3815
herbicides 6922	root	phenols, production 2120
humic acid 684 leaf, zinc nutrition 6080	aging, media 5360	host phenols, content 3805
potassium nutrition 1295	anaerobic conditions 6930 growth substances, treatment 2073	infection studies 6918
zinc nutrition 6922	toxins, fusicoccin, plant responses 5353	mulching 4570 resistance 2111, 4571–4572, 7797
	, participation cooperation	,,,

Subject Thuex		11
Tomato diseases contd.	Tomato diseases contd.	Tomato fruit contd.
Fusarium oxysporum contd.	Verticillium albo-atrum contd.	cracking contd.
f. lycopersici contd.	control 6086	pruning and training 6906
soil, fumigation 4570	host enzyme activity 8691	cuticle, growth substances, absorption
soil fumigation 7795	nematode relationship 243	2885
soil sterilization 7795	resistance, enzyme activity 8691	drop, nitrogen nutrition 5345
tolerance 7797	varietal resistance 7799	ethylene
varietal resistance 2860, 3792,	V. dahliae, host-parasite relationships	concentration, submersion 3837
6057–6058	3325	production
F. spp. incidence 6327	V. spp., varietal resistance 5337	growth substances 3813
resistance 2859	virus, resistance, breeding and selection 2916	temperature 3813
varietal resistance 675, 2858, 5337,	Xanthomonas campestris 5247	firmness, storage, temperature 7809 flavour
8765	X. phaseoli 5247	parthenocarpy 7810
water potential 6923	Xanthomonas vesicatoria 180, 5247	potassium, content 6937
general, economics, USA 2854	host reactions 7794	irradiation
Glomerella cingulata, varietal resistance	resistance 2110	gamma rays, pigments 5365
2107	yellow leaf curl, vectors, Bemisia tabaci	ionizing, disease control 604
leaf curl 5346	3808	X-rays, post-harvest 8797
vectors	Tomato disorders	lipids, content, ripening 6933
Bemisia tabaci 8786 control 8786	blossom-end rot 6081, 7790 fruit, composition 3820	nitrogen, content, temperature 8805 number
legume little leaf, control 278	incidence 3799	mulching, paper 4559
Leveillula taurica	Tomato flower	planting, spacing 1282
relative humidity 8781	bud initiation 1300, 3816	nutrients
temperature 8781	growth substances 7807	content
mosaic, control, cross protection, by	light 6925	grafted plants 8795-8796
tobacco mosaic, annual report, Irish	photoperiodism 6925	growing, under glass 4565
Republic 6770	plant nutrition 8773	parthenocarpy
Olpidium brassicae, vectors, tobacco	development 3816	composition 7810
necrosis 8651	light, intensity 2132, 6931	flavour 7810
pea mild mosaic 4502	plant nutrition 6931	growth substances
Phoma destructiva	temperature 2132	CPA 6934
host ascorbic acid, content 6106 host-pathogen relationships	morphology, growth substances, GA 2884	endogenous 8801 phytoene 2898
amides 4573	removal	pigments
amino acids 4573	fruit	biosynthesis 257
host sugars, content 6106	ripening 2131	packing, plastic bags 2136
incidence 1289	size 2131	post-harvest treatment, gamma rays,
Phytophthora infestans	Tomato fruit	respiration 1504
alternative hosts 3806	acidity 2890, 2892	potassium
bacterial fertilizers 6074	nitrogen nutrition 6910	content 6937
enzyme activity, fruit 2891	varietal differences 5369	fruit disorders 3820
fruit composition 2891	amino acids	proteins, content 4941
nitrogen nutrition 5345 varietal resistance 3787, 6900	content 6834 metabolism, ripening 8800	quality assessment 5370
P. nicotianae 6087	sugars, content 8667	carbon dioxide, supplementary 4566
P. parasitica, annual report report,	anatomy 2106	growth substances 6099
Canada 3603	anatomy 2106 aroma 5368	irradiation, X-rays, post-harvest 879
P. spp.	ascorbic acid	light 8797
host enzyme activity 3788	content	pollination 5363-5364
hybrid resistance 672	fertilizers, algae 6098	standards 6107
resistance 3788	growth substances 6094	temperature 4566
Pleospora herbarum 242	mutagens 7769	ripening 2892, 8799
Pseudomonas fluorescens 5247	nitrogen nutrition, soilless culture 2845	amino acids, metabolism 8800
P. solanacearum incidence 4568	Phoma destructiva 6106	ascorbic acid, content 8806 biochemistry 1299
varietal resistance 7770	Phytophthora infestans 2891	deblossoming 2131
P. spp., annual report report, Canada	potassium nutrition 2869	enzyme activity 88, 256, 1298, 8799
3603	varietal differences 1303, 2890,	enzymes 8793
Pyrenochaeta lycopersici	5362, 5369	content 2883
control 8779	fruit ripening 5362	ethylene 6103
nutrient absorption 7798	carotene, content, growth substances	Ficus sycomorus, fruit extract 1811
varietal resistance 2109	6094	growth substances 4583, 6099, 6102
Pythium aphanidermatum 4574	colour 2890	6935, 8798–8799, 8802, 8804 Betokson 676
Pythium myriotylum, magnesium nutrition 2205, 5412	harvesting time 4584 irradiation, X-rays, post-harvest 8797	ethephon 689, 2134, 2886,
P. spp.	light 8797	3817–3818
control 6920	nitrogen nutrition 7786	ethyl hydrogen 1-propylphosphate
host enzyme activity 8791	potassium nutrition 3801	689
Rhizoctonia solani 4574	seed treatment, bacterial fertilizers	irradiation
control 8779-8780	6074	ionizing 604
nematode complex 8782	storage, temperature 7809	X-rays, post-harvest 8797
Sclerotium rolfsii, control 8780	temperature 8805	light 8797
Septoria lycopersici	composition 1202	lipids, content 6933
host enzyme activity 4575	carbohydrates 1302	mulching, paper 4559
resistance 4575	seed, treatment 246 dry matter 1302	nitrogen nutrition 6910 nutritional value 1302
spotted wilt, report, Australia 3602	harvesting date 5367	organic acids
Stemphylium botryosum, fruit storage 6936	varietal differences 5367	content 1298
S. consortiale, fruit storage 6936	mutagens 7769	metabolism 2135
S. solani 1288	nitrogen nutrition 7786, 8805	packing, plastic bags 2136
tobacco mosaic 241, 5347, 6914	organic acids 1302	potassium nutrition 6910, 7788
boron nutrition 6913	parthenocarpy 7810	seed treatment, bacterial fertilizers
control	photoperiodism 602	6074
cross protection 2119, 5348	Phytophthora infestans 2891	storage 6103
inoculation 7792-7793	potassium 6937	controlled atmosphere 8803
host-pathogen relationships 2108	potassium nutrition 3801	temperature 7809
resistance 2859, 3789	protected cultivation 4579	sand penetration, assessment technique 6052
transmission, root infection 6082	storage, temperature 7809 temperature 5369	set 6032
varietal resistance 8765	varietal differences 5369	insecticides 2122
tobacco necrosis 8651 Verticillium albo-atrum 5350	cracking 2890, 7791	temperature 2133, 5340
- Stitemain aloo-attum 5550		

1122	•	Horticultural Abstracts 19/3 vol. 4
Tomato fruit contd.	Tomato growth substances contd.	Tomato growth substances contd.
shape 2890	fruit contd.	stomata
growth substances, CPA 6934	carotene	movements
size	content	aminozide 6093
carbon dioxide, supplementary 4566	aminozide 6094	chinosol 6093
deblossoming 2131	GA 6094	chlormequat 6093
growth substances 6099	colour	phenyl mercuric acetate 6093
CPA 6934	aminozide 8799	sugars
GA 2884	ethephon 8799	content
nitrogen nutrition 6910, 7786	GA 8799	aminozide 5361
planting, spacing 1282	IAA 8799	GA 5361 translocation, heteroauxin 1320
pollination 5364	firmness	water relations
potassium nutrition 3801, 6910, 7788 pruning and training 7780	aminozide 8799	chlormequat 6100
temperature 4566	ethephon 8799 GA 8799	2,4-FET 6102
topping 8771	IAA 8799	2,4,5-FET 6102
splitting	parthenocarpy, CPA 6934	2,4,5-T 6102
growth substances 2128	ripening	`Tomato leaf
pericarp, morphology 2128	aminozide 8799	anatomy, soil salinity 8778
sugars	Betokson 676	bud development on 247 composition
content 6834, 8667 mutagens 7769	ethephon 689, 2134, 2886,	chlorophyll, seed, treatment 246
Phoma destructiva 6106	3817–3818, 4583, 6935,	manganese, soil, sterilization 240
sulphur nutrition 6079	8798–8799, 8802, 8804	nitrogen, soil, sterilization 240
Tomato grafted on potato	ethyl hydrogen 1-propylphosphate	pigments 254
calcium	689	development
content	2,4-FET 6102	ascorbic acid, content 5362
fruit 8795–8796	2,4,5-FET 6102	enzyme activity 5362
tuber 8795–8796	GA 8799	epinasty
magnesium	IAA 8799	fusaric acid 5358 picloram 5358
content fruit 8795–8796	2,4,5-T 6102	injury, enzyme inhibitors 8790
tuber 8795–8796	shape, CPA 6934	nutrient absorption, manganese,
nitrogen	Size CDA 6024	surfactants 1136
content	CPA 6934 GA 2884	nutrients, content, growing, under glass
fruit 8796	splitting	4565
tuber 8796	GA 2128	senescence
phosphorus content	IAA 2128	amino acids, content 1297 growth substances 8798
fruit 8796	NAA 2128	GA 1297
tuber 8796	glycosides	MH 1297
potassium	content	light, duration 1297
content	GA 8794	water content
fruit 8795–8796	IAA 8794	drought 2474
tuber 8795–8796	hypocotyl, growth, bromodeoxyuridine,	flooding 2474
Tomato growth substances	deoxyuridine 3812	soil salinity 8778 Tomato nutrition 869
absorption fruit	interaction bromodeoxyuridine, deoxyuridine	annual report, Rhodesia 4364
abscisic acid 2885	application 3812	boron, disease incidence, tobacco mosaic
2,4-D 2885	temperature, ethephon 3813	6913
NAA 2885	leaf	calcium 6076
biosynthesis, IAA 250, 2127	senescence	absorption 5192
cold, resistance, chlormequat 6100	ethephon 8798	annual report, German Federal
disease incidence GA 3815	GA 1297 MH 1297	Republic 7599 root, mechanism 4561
IAA 3815	metabolism, IAA 251, 2127	deficiency 4567
endogenous	nematode relationships	blossom-end rot 7790
cotyledons 248	chlorfluorenol 8785	symptoms 4567
diseased plants, Verticillium dahliae	ethephon 8785	fluorine toxicity 6932
3325	Phosphon-D 8785	phosphorus absorption 6911
fruit 8801	nutrient absorption	cobalt
humic acid 684	aminozide 6094	amino acids, content 8772
root, nematodes 244 enzyme activity	GA 6094 organic acids	rhizosphere, micro-organisms 8772 fertilizers
fruit	content	algae
aminozide 8799	aminozide 5361	enzyme activity 6098
ethephon 8799	GA 5361	fruit, ascorbic acid, content 6098
GA 8799	redox processes	leaf, ascorbic acid, content 6098
IAA 8799	2,4-FET 5357	FYM 8776
leaf	2,4,5-FET 5357	general
2,4-FET 6102 2,4,5-FET 6102	2,4,5-T 5357 residues	flower, development 6931 leaf analysis, symposium 2489
2,4,5-T 6102	fruit, chlormequat 5198	toxicity, soil amendments 8774
plant	plant	humic acid 684
aminozide 5361	2,4-D 2104	interaction, temperature 2132
GA 5361	2,4,5-T 2104	iron
ethylene, production, ethephon 3813	responses	absorption, soil salinity 6912
flower, morphology, GA 2884 flower bud	aminozide 6099	deficiency 7789
initiation	azathymine 7807 benzyladenine 5359	leaf, composition 7789 sources, soilless culture 2845
kinetin 7807	chlormequat, review 8310	lead 173
thymine 7807	GA 5359, 8794	magnesium
flowering	heteroauxin 7808	deficiency 4567
date	IAA 8794	symptoms 4567
chlormequat 6093	IBA 6101	disease incidence 2205, 5412
phenyl mercuric acetate 6093	NAA 6101	major elements, requirements 8775
kinetin 7807 thymine 7807	SRV 7808	manganese 1284, 6076
fruit	root, growth, bromodeoxyuridine, deoxyuridine 3812	absorption, soil salinity 6912 application
ascorbic acid	shoot	foliar, surfactants 1136
content	growth	seed 7773
aminozide 6094	kinetin 7807	leaf, absorption, surfactants 1136
GA 6094	thymine 7807	minor elements 608

Subject Index			112
Comato nutrition contd.	Tomato nutrition contd.	Tomato seed contd.	
minor elements contd.	zinc contd.	enzymes characterization, heterosis 3	3810
availability, nitrogen nutrition 8589	respiration	. germination	
requirements 8775	leaf 6080, 6922	inhibition 1281	
sources 8589	root 6922	manganese 7773	
toxicity, nitrogen nutrition 8589	Tomato pests	irrigation 4376	
molybdenum, deficiency, growing in peat	Aphelenchus avenae, disease complex	pelleted seed 7774	
4382, 7628	8782	seed, size 4556	
nitrogen 1282, 1284, 5215, 5345, 6038,	aphids 4383 Bemisia tabaci	soil, temperature 678	
6076, 6909–6910, 8777 application, time 3800	control 8786	temperature 2093–2094 time, genetic control 4556	
availability 117	vectors, leaf curl 8786	mineral elements, content 6059	
darkness 5356	virus vectors, yellow leaf curl 3808	size, yield correlations 6060	
deficiency 4567	Circulifer tenellus, virus vectors, curly top	sowing	
glycosides, content 8794	2871	composts, peat, nutrition 1286	
symptoms 4567	Drosophila spp., resistance, breeding and	direct 1943	
disease incidence	selection 5335	direct v. transplanting 7780	
Botrytis cinerea 5345	Heliothis virescens, parasites 4430	peat 7606	
Phytophthora infestans 5345	H. zea, parasites 4430 Hemicriconemoides chitwoodi 5132	spacing 2864 treatment	
fruit	Hemicycliophora parvana, control 6975	bacterial fertilizers 6074	
colour 7786	Hemitarsonemus latus 4539	boron 6078	
composition 7786, 8805	Heterodera rostochiensis 5352, 6088	capsicum fruit extract 2093-2094	
size 7786	control 6089	cobalt 6078	
glycoside, content 249	host-pest relationships 4581	copper 6078	
leaf	population studies, nematicides 7800	fungicides 3622	
chlorophyll 6077	resistance, rootstocks 2121	hardening	
pigments 6077	integrated control 3627	plant composition 6062	
photosynthesis 6907	Liriomyza munda 1288, 4576–4577 Meloidogyne arenaria, nutrient absorption	plant water relations 6062 hypertonic salt solution, wafering	606
plant, manganese content 4563	2878	irradiation	000
requirements 4560	M. hapla 686	gamma rays 246	
light intensity 6908	growth substances 8785	pollen, viability 245	
soil analysis 4560	Meloidogyne incognita 685, 5351, 6090	manganese 6078, 7773	
sources	-fungus complex 2877	molybdenum 6078	
compared 1286, 2870, 3800, 5214	host-pest relationships 3807	mutagens 2857	
minor elements 8589	population studies 6091	fruit composition 7769	
minor elements toxicity 8589	resistance 3807	pelleted 1943, 7774	
slow-release 7785 toxicity 2870, 3800	root composition 244 varietal resistance 1279	Zinc 6078 Tomato shoot	
NPK 118, 1143, 2869, 6071, 8773, 8776	Meloidogyne javanica 685–686	apices, mechanical stresses 7803	
pigment, content 254	growth substances 8785	composition, growth substances, IAA	
organic fertilizers, leaf, chlorophyll,	nutrient absorption 2878	251	*
pigments, content 6077	Meloidogyne spp. 1290, 8784	Tomato soil	
organic hydrolysate 6073	resistance 2859	amendments	
organic liquid manure, early ripening	soil fumigation 7801, 8783	ammonified coal 7784	
683	Phthorimaea operculella, control 6921	asphalt 2114	
peat extracts, plant, composition 5344 phosphorus 1282	Pratylenchus penetrans, disease relationship 243	humates 8774 peat 7784	
absorption	Radopholus similis 2394	perlite 2114	
calcium nutrition 6911	alternative hosts 7608	polystyrene, nutrient availability 1	17
herbicides, trifluralin 8770	review, Bolivia 5671	sawdust 1285, 2114	
humates 8774	Rotylenchulus reniformis 2394	silt 7784	
nutrient solution, bicarbonate 7787	population studies 6091	urea formaldehyde foam resins, nut	rien
availability 120	varietal resistance 7771	availability 117	
calcium content 6826	Tetranychus telarius 4539	vermiculite 2114	
darkness 5356	integrated control 7802 varietal resistance 1291	fumigation bromine	
deficiency 4567 symptoms 4567	Trialeurodes vaporariorum 1292, 2122,	content	
disease incidence 241	3809, 4576–4577	fruit, methyl bromide 8789	
metabolism, humates 8774	integrated control 7802	leaf, methyl bromide 8789	
photosynthesis 6907	Trichodorus christiei	Fusarium oxysporum	
potassium content 6826	control 6975	f. lycopersici	
rhizosphere, micro-organisms 8620	root growth 687	chloropicrin 7795	
soil temperature 6826	Tylenchulus semipenetrans 2394	DD-MENCS 4570	
sources 3802	Vasates lycopersici 4539 Tomato plant	methyl bromide 7795 Heterodora rostochiensis, methyl	
compared 8777 translocation, nutrient solution,	composition	bromide 6089	
bicarbonate 7787	analysis methods tissue preparation	Meloidogyne spp.	
potassium 1282, 1284, 5215, 6076,	Š170	carbathion 8783	
6909–6910, 7788	glycosides, nitrogen, nutrition 249	thiazone 7801	
absorption, nitrogen nutrition 6910	seed treatment 6062	Olpidium brassicae, methyl bromide	0
application, foliar 3801	Tomato propagation	8651	
assimilates, translocation 1295	cuttings	moisture, plant water relations 7782	17 Q A
deficiency 4567	source plants nutrition, nitrogen 2130	nutrients, availability, amendments 7 salinity	/ / 04
symptoms 4567	protein content 2130	enzyme activity 6926, 8778	
disease incidence 3801 Botrytis cinerea 5345	Tomato root	iron, absorption 6912	
fruit	enzyme activity 8792	leaf anatomy 8778	
colour 3801	growth 1147	leaf water content 8778	
composition 3801	anaerobic conditions 6930	manganese, absorption 6912	
flavour 6937	tissue culture 2129	stomata number 8778	
size 3801	Trichodorus christiei 687	zinc, absorption 6912	
requirements, light intensity 6908	tomatine, biosynthesis, tissue culture	sterilization	
respiration 1295	2129 treatment, growth substances 7808	steam disease control 7795, 8651	
strontium, absorption, root, mechanism	Tomato rootstocks	leaf, composition 240	
4561 sulphur 6079	CRA 66, as a rootstock, eggplant 4545	temperature	
nitrogen metabolism 6079	nematode resistance, Heterodera	plant nutrition 6826	
zinc	rostochiensis 2121	seed germination 678	
absorption, soil salinity 6912	Tomato seed	seedling growth 678	
deficiency, chloroplast, proteins, content	black, germination 6081	types	
4564	composition, oil 253	plant composition 7818	

112.	•	
Tomato soil contd.	Trachysphaera fructigena, incidence, cacao	Transpiration contd.
types contd.	diseases 4847	water use efficiency, varietal differences,
plant water relations 7782	Tractors	grapevine 1925
Tomato varieties 2887, 4371	annual report, UK 2487 fruit trees and plants 2511	Transport chutes, grapevine fruit 4358
annual report Sarawak 3609	Trade, FAO, yearbook 863	container-, lemon, grapefruit, mandarin
UK 598	Tradescantia	and tangerine, orange 4016
autumn harvesting 3790	cytology, meiosis 2210	containers
comparative studies 6928	enzymes 5895-5896	bulk bins, bulbs, narcissus, annual
comparative trials 675, 1280	irradiation 5418	report, UK 3834
Bulgaria 1278, 4555	neutrons, mutation induction 5418	carbon dioxide concentration, lettuce 2756
low sunlight 1283 Nicaragua 6055	X-rays, mutation induction 5418 light, stomata, movements 5417	compared
Pakistan 2890	mutagen testing 1346	lemon 1507
USA 4551	stomata, movements, light 5417	orange 1507
USSR 4550	Tradescantia spp., stomata, physiological	refrigerated apricot 7426
Venezuela 4554	studies, annual report, Australia 6480	cucumber and gherkin 7426
disease resistance 675, 8765	Trametes hirsutus, chestnut (Castanea)	design, pineapple 1614
Alternaria spp. 4553, 6055	diseases 1006	grapevine, fruit 7426
annual report, Western Samoa 7602 anthracnose fungi 2107	Translocation anaerobic conditions, squash 8658	peach 7426
Cladosporium fulvum 4552, 7772	carbohydrates, flowers, cut 2296	plum 7426 trays, liners, pear 1033
curly top 4551	growth substances, bean (Phaseolus)	conveyor belt, pot plants 6965
Erwinia aroideae 2873	3714	damage
Fusarium oxysporum, f. lycopersici	inorganic salts 1673	apple 7307
2860, 6057–6058	measurement, bean (Phaseolus) 2028	cherry 7307
Fusarium spp. 2858, 5337 Phytophthora infestans 3787, 6900	mechanism 4 cress 2775	grapevine fruit 7307 onion 7307
Pseudomonas solanacearum 7770	marrow 2775	strawberry 7307
Pyrenochaeta lycopersici 2109	phloem blockage, bean (Phaseolus) 5987	economics, apple, annual report,
Septoria lycopersici 4575	studies 2510	Netherlands 5697
Verticillium albo-atrum 7799	growth substances	fruit 8312
V. spp. 5337 ES-32-1 4553	bean (<i>Vicia</i>) 7726 Cleome hassleriana 7881	containers, polystrene, economics, apple 980
fruit 4555	coleus 5453	ground cover plants 8848
ascorbic acid, content 1303	photosynthates, hop 3959	heat exchange, coefficients, citrus 6364
composition 5369	radish 8639	pallets, high density planting, fruit 3362
cracking 7791	tomato, excised roots 7805	pre-cooling
greenhouse 675, 2858, 3791, 4550, 5333 Gringo 6056	vascular connections, <i>Fritillaria</i> spp. 2965	lemon, grapefruit, mandarin and tangerine, orange 4016
high density planting 4554, 5240	Transpiration (see also Water relations)	strawberry 1077
Lafayette 8764	anti-transpirants	tomatoes, annual report, Australia
mechanical harvesting 2862, 2889, 4551,	boron, absorption, sugar cane 4102	7596
6056 Ohio M.P. 13 8765	detection 4918 fruit	raspberry 5089 suitability, breeding and selection,
Ohio M-R 13 8765 ozone, injury, resistance 673	composition, cherry 2630	grapevine fruit 7547
pest resistance 1291	cracking, cherry 4239	sulphur dioxide treatment, grapevine fruit
Meloidogyne incognita 1279	quality, olive 2424	7307
Rotylenchus reniformis 7771	size, cherry 2630	temperature, lemon, grapefruit, mandarin
processing 1134, 2862, 4554, 6055, 6901 canning 4585	leaf senescence, annuals 3333 persistence, Pinolene, orange 6354	and tangerine, orange 4016 vacuum cooling
Korea 674	stomatal responses, watermelon 8657	carnation 2164
Redstaker 8766	tomato 6093	chrysanthemum 2164
report, Sri Lanka 2733	vegetables 3333	flowers, cut 2164
Rouge de Marmande 5337	annual report, UK 1934	gladiolus 2164
Saturn 6057–6058 soilless culture, USSR 5336	water relations, sugar cane 4102 calcium, translocation, apple 1775	rose 2164 vegetables 8312
Stakeless 3793	diurnal variations, irrigation, grapevine	annual report, Cyprus 3604
sub-tropics 2861	6737	in water, stone fruits 1718
tropics 2112	evapo-	Tranzschelia discolor, peach diseases, annual
USA 3791 USSR 2861	estimation, sugar cane 9263	report, USA 451
Venus 6057–6058	measurement lettuce 4413	T. spp., report, Australia, Prunus spp., diseases 3344
Vermillion 8764	sugar cane 9262	Trapa spp., taxonomy 266
virus tolerance, leaf curl 5346	seasonal variations, vegetables 5354	Tree
417 3792 Termodian methods and 9347	studies, citrus, annual report, USA	crown foliar density
Topworking, methods, apple 8347 Torreya nucifera, seed, oil, fatty acids 2374	2375 fluorine, pea 3735	light intensity, mandarin and tangerine 8064
Tortix moths, control, apple pests 4988	foliar nutrition, coffee 9171	photosynthesis, apple 7395
Tortricidae, apple pests, review 7282	light intensity, bean (Phaseolus) 2793	pruning and training, mandarin and
Tortrix politana, control, cultural methods,	measurement, annual report, Netherlands	tangerine 8067
tea pests 3279	5	crown fruit distribution
Toxoptera aurantii, control, cultural methods, tea pests 3279	mechanism bean (<i>Phaseolus</i>) 8695	light intensity, mandarin and tangerine 8064
T. citricidus	electrical analogue 2509	pruning and training, mandarin and
citrus pests 4003	nitrogen nutrition, coffee 9171	tangerine 8067
virus vectors, tristeza, citrus pests 4798	photosynthesis, bean (Phaseolus) 2793	height
Trace elements absorption 3299	potassium nutrition, coffee 9171	estimation, aerial photography, apple
metabolism 3299	pruning and training, apple 5741 root hydrostatic pressure, capsicum 8755	4174 light interception, apple 8357
toxicity 3299	rootstock-scion relationships, peach 1023	shape, light interception, apple 8357
translocation 3299	rootstocks, apple 5741	size, light interception, apple 8357
Trachelospermum jasminoides	soil pH, Schizandra chinensis 8968	volume
soil salinity	temperature of fruit grapevine 7582	estimation
plant, tolerance 2161	temperature of fruit, grapevine 7582 temperature of leaf, grapevine 7582	apricot 8452 peach 8452
sodium, chlorine 2161	toxins	plum 8452
Trachyspermum ammi	fusicoccin	Trees
nutrition	bean (Phaseolus) 3712	history, UK, book 7938
nitrogen 9006 potassium 9006	vegetables 4478 virus infection, grapevine 2722	legends, UK, book 7938 Trees and shrubs
sulphur 9006	water relations, tea 4112	air pollution, studies, equipment 7845
		r,

Subject Index		1125
Trees and shrubs contd.	Trichodorus christiei contd.	Tulip contd.
breeding and selection, juvenility 5689	control contd.	flowering
diseases, virus 2916	tomato pests 6975 onion pests, annual report, USA 4368	date bulb, storage temperature 3875
drought, resistance 1382–1383	root growth, tomato pests 687	growth substances 8907
economics, Netherlands 7031	rubber pests 9215	temperature 8907
ethylene, treatment 2979	vectors, mosaic, papaw pests 9193	growth substances, GA 1367
flowering, precocity 5689 fluorine, toxicity, plant tolerance 7845	T. spp.	inhibition, saline water 5436 forcing 6165
frost	bulbs, pests 3864 sugar cane pests 7246	bulb, storage temperature 3875, 4663
resistance 2158	virus, vectors, rattle virus, tulip 2258	chilling requirements 7913
annual report, Canada 2154	Trichogramma australicum, parasite of,	disease incidence 2259
growing book 3907	Chilo enfuscatellus, sugar cane 1641	disorders 1365 growth substances 8907
economics, Netherlands 7031	T. spp. parasite of	labour requirements 7016
New Zealand 3906	Archips xylosteana	plunging under straw 6184
Poland 3906 UK, book 8283	apple 2580	pre-cooling 1366 injury 734, 2954–2955
juvenility	cherry 2580	temperature 4663, 8907
breeding and selection 5689	Trichoplusia ni biological control	fungicides, injury, etridiazol 2259
landscaping 2908, 8940	cabbage pests 1172, 4427, 7657	growth phases 7912 growth studies
parks 2908	lettuce pests 5913	mathematical model 6187
photoperiodism, root development, annual	cabbage pests 1172, 5196, 5929	shoot-cell length relationships 8906
report, USA 3835 propagation 1382	annual report	hail, damage 2256
cuttings	Canada 1944, 2734, 5883 USA 8585	irrigation 4665 recommendations 293
annual report	cauliflower and broccoli pests 5929	saline water 5436
German Federal Republic 7844	celery pests, annual report, USA 8585	salts concentration 2257
Irish Republic 2909 mist 4684	control cabbage pests 7657	labour requirements, forcing 7016 organic acids, content, disease incidence
rooting capacity 1328	watermelon pests 6824	3877
materials, selection, health 2916	varietal resistance, cabbage pests 5919	planting
pruning and training	vegetables, pests, annual report, USA	disease incidence 2958
book 3907 container-grown 2275	4367–4368 Trichosanthes anguina, pests, Dacus	late, pre-cooling 3876 spacing 5435
roadside	cucurbitae, control 5223	bulb number 8903
annual report, USA 2152	T. spp.	bulb size 7014, 8902-8903
salinity damage 313	diseases, Erysiphe cichoracearum 6823	work studies 1317, 8904
root development	seed, oil, composition 2339 varieties, report, Sri Lanka 2733	seedling, pricking out, work studies 1317 temperature, flower bud initiation 297
photoperiodism, annual report, USA	Trichothecium spp., control, apple diseases	tulipalins, determination 7015
3835	7413	work studies, planting 8904
temperature, annual report, USA 3835	Tridax spp., as weeds, oil palm 1601 Trifolium repens, lawns and sports turf,	Tulip bulb bud opening, ethylene-induced 3880
staking 2979	mowing, height 7924	ethylene
sulphur dioxide, plant resistance 7845	T. spp.	concentration, submersion 3837
temperature, root development, annual	lawns, Norway 3885	injury 3880
report, USA 3835 trunk, girth 2979	roadsides, establishment 3888 as weeds	production, storage 3880 formation, mother bulb treatment 6183
uses, various sites 2274	bean (Phaseolus) 2017	harvesting, dates 6183
value	lawns and sports turf 3892	heat treatment 1690
aesthetic 1316 functional 1316	Trigonella spp., seed, composition, glycoflavones 353	nematode control 2260 maturation, artificial 6183
varieties, evaluation 2916	Trioza erytreae	number, planting, spacing 8903
as weeds, vegetables 1946	aerial spraying, orange pests 4805	phytoalexins, production 736
wind, damage 2979	citrus pests 4003 control, citrus pests 4804	production 287 annual report, UK 2153
winter hardiness 1382 Trialeurodes spp., control, annual report,	parasites, citrus pests 5566	size, planting, spacing 7014, 8902–8903
German Federal Republic 7843	T. viridula, plant composition, carrot pests	storage
T. vaporariorum	Tritornones extraction Public snn 1053	ethylene
biological control, cucumber and gherkin pests 3685	Triterpenes, extraction, Rubus spp. 1053 Trombidium spp., predator on, Phylloxera	disorder incidence 6185, 7909 growth inhibition 6185
control	vitifoliae, grapevine 1921	production 3880
fuchsia pests 7956	Tropical crops	temperature 1364, 3876, 4663
growth substances, aminozide, petunia pests 3850	fungicides, disease control, copper, review 1694	carbohydrates, metabolism 7908 flower colour 7908
cucumber and gherkin pests, annual	monocotyledons, book 1668-1669	flower development 735, 7908
report, Belgium 8578	Palmaceae 2434	flowering date 3875, 7908
fuchsia pests, annual report, UK 6128	root, anatomy 3172 storage, losses 4147	pre-cooling, injury 734 treatment
greenhouse crops, pests 2503, 6500 integrated control	Tropical plants	ethylene 6185
cucumber and gherkin pests 7802	biology, book 9120	temperature 6183
tomato pests 7802	ecology, book 9120	Tulip diseases
tomato pests 1292, 2122, 3809, 4576–4577	Tryporyza nivella, incidence, sugar cane pests 853	annual report, USA 1315 Augusta disease virus, planting date
Trichoderma spp.	Tulip	2958
mushroom diseases 1312	annual report	Botrytis cinerea 3877
Panax ginseng, diseases 3052	Netherlands 1314, 2219, 6127 UK 732–733, 3874, 7907	host-pathogen relationships 294 B. tulipae 3877
post-harvest dips, orange diseases 6362 sugar cane diseases, annual report, USA	USA 8839	hail damage 2256
9221	carbohydrates, metabolism, bulb, storage	host-pathogen relationships 294
T. viride	temperature 7908	soil, fumigation 2959
antagonistic to, Stereum purpureum, plum	cell, division, growth relationships 8906 chromosomes, structure 8901	Fusarium oxysporum 296 ethylene, production 3880
fungal parasite, Stereum purpureum, plum	classification, Netherlands 2255	planting date 2958
6659	enzyme activity	F. spp., bulb treatment 2259
soil, micro-organisms, replanting,	flower 7911 phytoalexins, production 736	Macrophomina phaseolina 3317 necrosis 5437
grapevine 1105 soil steaming, mushroom diseases 6956	ethylene	Pythium spp., bulb treatment 2259
Trichodorus christiei	exposure, bulb, bud opening 6185	rattle virus 2258
control	injury, flower bud 7909	planting date 2958
capsicum pests 6975	treatment, bulb 6185	vectors, Trichodorus spp. 2258

Tulip diseases contd.	Tung contd.	Turnip contd.
Sclerotinia bulborum, soil, fumigation	chilling requirements, annual report, USA	calcium, content, mother-plant treatment
2959	2433	1178
Sclerotium wakkeri 3317	flowering, date, growth substances 3170,	chlorophyll, content, phytochrome
soil-borne 3319	frost protection flowering date growth	relationships 4937 enzyme activity, respiration 148–149
tobacco mosaic 7910 tomato bushy stunt 5437	frost, protection, flowering date, growth substances 4828	growing, as an intercrop, sugarcane 5650
tulip breaking, varietal resistance 2953	insecticides, injury, dimethoate 8117	herbicides, injury, EPTC 3660
veinal streak 2956-2957, 8905	Tung fruit	insecticides
Tulip disorders 1365	set	absorption
blast 734	growth substances	aldrin 2762
bud blast 7909	aminozide 3170	dieldrin 2762 residues
bud necrosis 3880	naphthenic oil 3170 Tung growth substances	arsenic 3329
bulb storage 6185 topple, calcium deficiency 1364	flowering	plant, lead arsenate 1951
Tulip flower	date	translocation
biology 7911	aminozide 3170, 4828	aldrin 2762
bud, injury, ethylene 3880	naphthenic oil 3170	dieldrin 2762 irradiation, gamma rays, mutation
bud initiation	fruit	induction 8613
bulb treatment 6183	set	lead, residues 4936
temperature 297	aminozide 3170	mutants
colour, bulb storage temperature 7908	naphthenic oil 3170 Tung pests, Heliothrips haemorrhoidalis	induction 8613
composition 7911	8117	pest resistance 8613 phytochrome, -chlorophyll relationships
fluorine injury, tap water 2913	Tung seed, sowing, dates, USSR 7169	4937
preservatives	Tungsten	respiration, enzyme activity 148-149
fluorine injury mitigation 2913	enzyme activity, leaf, spinach 2747	seedling
growth substances	proteins, metabolism, spinach 2747	emergence, soil temperature 4447
ancymidol 3879 Phosphon 3879	Tunisia fruit trees and plants, growing 4369	growth, inhibition, <i>Coronilla varia</i> seed leachate 7625
production 287	vegetables, growing 4369	steckling, size, seed yield 7663
stem bending 3879	Tunnels .	sugars, content, mother-plant treatment
development	plastic 14	1178
bulb storage, temperature 735	annual report	water, content, mother-plant treatment
bulb storage temperature 7908	Austria 114 Belgium 1060	1178 water relations, nutrition 5926
enzyme activity 7911 injury, bulb storage, ethylene exposure	cabbage 2758	weed control 7653
7909	carnation 5398	annual report, USA 1935
phytoalexins, production 736	carrot 5373	Turnip diseases
stem	cauliflower and broccoli 7647	cabbage yellows, incidence 614
length	chicory 5176 cucumber and gherkin 4449	Plasmodiophora brassicae assessment methods 5165
bulb, storage temperature 3875 growth substances 8907	frost, protection, by sprinkler irrigation,	varietal resistance 7640
temperature 8907	bean (Phaseolus) 2016	Turnip flower, bud initiation 1176
Tulip flowering, date, bulb storage	frost protection, mandarin and	Turnip growth substances, cambial activity,
temperature 7908	tangerine 7130	root 8629
Tulip growth substances endogenous, plant 295	heat loss, annual report, Irish Republic 6482	Turnip nutrition, NPK 5926 Turnip pests
flower stem, length, GA 8907	late harvesting, strawberry 8521–8522	aphids 4383
flowering	lettuce 1686, 2753	Ditylenchus dipsaci 3878
date, GA 8907	melon (cantaloup and musk) 7679,	Turnip root, cambial activity 8629
GA 1367	8646	Turnip seed, production, steckling, size
flowers, cut stem	onion 3760 overwintering, strawberry 6700	7663 Turnip soil
bending	planting dates, strawberry, annual	moisture, nutrient absorption 5926
ancymidol 3879	report, Irish Republic 1857	seedling emergence 4447
Phosphon 3879	propagation	temperature, disease incidence 614
length	rose 5475	Turnip varieties
ancymidol 3879 Phosphon 3879	trees and shrubs, annual report, Irish Republic 2909	disease resistance, <i>Plasmodiophora</i> brassicae 7640
injury, Phosphon 3879	rainfall protection, vegetables 5166	Golden Ball, Pakistan 610
Tulip nutrition	strawberry 1686, 7531	Pusa Chandrima 3656
annual report, Netherlands 6962	annual report, UK 5096	Tussilago farfara, as medicinal plants 5538
calcium 1364	strength 7293	Tylenchorhynchus christiei, azalea pests
Tulip pests Ditylenchus dipsaci 2260, 6186	temperature 884–885 cloud cover 885	2288 T. claytoni
alternative hosts 3878	types compared	azalea pests 2288
annual report, Netherlands 6961	annual report, Irish Republic 6482	lawns and sports turf pests 2265
mites, bud necrosis 3880	fruit, set, capsicum 6889	T. dubius
Tulip root, formation, bulb treatment 6183	strawberry 3554	disease relationships, lawns and sports
Tulip seed, sugars, content 8883 Tulip soil	annual report, strawberry 4297 vegetables 1945	turf, pests 6196 lawns and sports turf, pests 2266, 6198
fumigation	variety trials, carrot 8808	Tylenchulus semipenetrans
Botrytis tulipae, Vapam 2959	vegetables 1187	citrus pests 2394
Sclerotinia bulborum, Vapam 2959	annual report	annual report, USA 8051
temperature, disease incidence 2259	German Federal Republic 7600	control, cultural methods, citrus pests
Tulip varieties disease resistance, tulip breaking 2953	UK 4366, 6774 ventilation, strawberry 7530	4002
polyploid 2953	weed control, lettuce, annual report,	grapefruit pests, annual report, Cyprus 3980
Tulipa gesneriana	UK 5885	okra pests 2394
flower	wax paper, tomato 2113-2114	orange pests 2395
bud development 8900	Turkey, crops, nuts 25	pineapple pests 2394
bud initiation 8900 T. spp.	Turmeric essential oil, determination 7985	population studies, decline association,
classification, Netherlands 2255	nutrition, potassium 7076	citrus pests 8078 resistance
diseases, tobacco mosaic 7910	research, India, review 7968	Citrus spp., pests 3100
pollination, double fertilization 2960	Turnip	Severinia buxifolia, pests 3100
seed, development 298	annual report	rootstock resistance, citrus pests 4787
tuliposides 8908 T. stellata, plant, variation 5434	Austria 114 UK 1936	soil, fumigation, citrus pests 4787
Tung	ascorbic acid, content, mother-plant	tomato pests 2394 Typhlodromus fallacis, population studies,
annual report, Malawi 9119	treatment 1178	fungicides, apple 5737

Subject Index		11:
Typhlodromus contd.	Uromyces contd.	Vaccinium spp. contd.
T. occidentalis, predator on, Tetranychus telarius, hop 7093	U. musae, varietal resistance, banana diseases 1540	pollination 2690 seed
T. potentillae, predator on, Panonychus	U. phaseoli	dormancy, breaking 5091
ulmi, apple, annual report, Netherlands 5697	bean (<i>Phaseolus</i>) diseases 3707 control	germination light 5091
T. rhenanus, predator on, Brevipalpus	bean (Phaseolus) diseases 8690	temperature 5091
calcifornicus, citrus 1489 T. spp., population studies, sprays, apple	dark treatment, bean (<i>Phaseolus</i>)	treatment
957	diseases 5251 heat treatment, bean (<i>Phaseolus</i>)	cold 5091 fruit juice 5091
Typhula inoarnata, lawns and sports turf,	diseases 5251	stratification 5091
diseases 6195 T. ishikariensis, lawns and sports turf,	host-pathogen relationships, bean (<i>Phaseolus</i>) diseases 4476	soil
diseases 6195	resistance, bean (<i>Phaseolus</i>) diseases	aeration, water table 6686 water table 6686
T. spp., strawberry diseases, stored runners	2023, 2792	yield, forecasting 1870–1871
Tyrophagus longior, biological control,	varietal resistance, bean (<i>Phaseolus</i>) diseases 3708	yields, statistical analysis, USSR 3526
cucumber and gherkin pests 3685	U. phaseoli-typica, bean (Phaseolus) diseases	Valerian
Tythus mundulus, predator on, Perkinsiella	643	annual report, Austria 347 growing, as a medicinal plant 8046
saccharicida, sugar cane 1637 Uganda	U. phaseoli typica, incidence, Brazil, bean (Phaseolus) diseases 5235	herbicides, leaf, chlorophyll, content,
vegetables	U. transversalis, gladiolus diseases 3317	Patoran 8045
economics 5887 growing 5887	Urtica dioica, leaf, organic acids, content 8594	hydrocarbons 3089 weed control 3062, 8045
UK growing 3007	U. urens, as weeds, vegetables 7648	Valerian diseases
apple	Urticaria urens, cabbage 6795	annual report, German Federal republic
economics 3341 production and trade 3341	usa agricultural, statistics 899	7063 Thielaviopsis spp. 8047
apple varieties, register 34	apple, production and trade, estimation,	Verticillium spp. 8047
capsicum, growing 4530, 6036	mathematical model 7415	Valerian root, composition, valepotriates
flora 434 fruit, production and trade 4120	Benincasa hispida, growing 5944 cranberry, growing 6687	6321 Valerian seed
horticultural crops, survey 4123	cucumber and gherkin, growing 5205	germination
pear, production and trade, economics 3342	Cyamopsis spp., economics 6858	light, interaction, temperature 3978 temperature 3978
plum, growing, economics 6654	fruit trees and plants, varieties, register 5670	storage 3978
small fruits	gladiolus, economics 7004	viability 3978
economics 3343 production and trade 3343	mint, essential oil, production and trade 2327	Valerianella spp., winter hardiness, Germa Federal Republic 7597
Ulex spp., nutrition, nitrogen, container	nuts, varieties, register 5670	Valsa cincta, apricot diseases 63
grown 267	pentstemon, growing 5414	V. mali
Ultrasonics, seed treatment, squash 4446 Umbelliferae	strawberry, growing, sub-tropics 4321 tomato, production and trade 2853	boron nutrition, apple diseases 475 nitrogen nutrition, apple diseases 475
diseases, virus, incidence, German Federal	USSR	varietal resistance, apple diseases 475
Republic 6781 flavonoids 3340	apricot, growing 4251 Aronia melanocarpa, growing 7487	Vanadium enzyme activity, leaf, spinach 2747
seed, treatment, fungicides 3622	citrus, growing 9077	proteins, metabolism, spinach 2747
Uncaria gambir, annual report, Sarawak	cranberry, growing 7512	Vanda spp., mycorrhiza 5459
3933 Uncinula necator	Dioscorea spp., growing 5523 Fumaria officinalis, growing 8023	Vanilla annual report, Sarawak 3933
control, grapevine diseases 7580, 8482	Inula grandis, growing 7111	breeding and selection, disease resistance
grapevine diseases 1914, 1918, 2723 annual report	liquorice, growing 4768 peach, growing 4251	2321 growing
Italy 6714	philadelphus, growing, for essential oil	Malagasy Republic 2321
USA 7490	production 7082	Uganda 2321
incidence, foliar nutrition, minor elements, grapevine diseases 7568	Ustilago scitaminea East Africa, survey, sugar cane diseases	Malagasy Republic, annual report, France 754
resistance, breeding and selection,	8220	Vanilla bean
grapevine diseases 5825 Switzerland, grapevine diseases 5860	environmental factors, sugar cane diseases 6429	composition 2321 drying, ovens 2321
varietal resistance, grapevine diseases	plant thinning, sugar cane diseases 7245	Vasates lycopersici, tomato pests 4539
3584, 7546, 8563	planting density, sugar cane diseases	Vegetables
Urea, treatment, sett, germination, sugar	7245 seasonal susceptibility, sugar cane diseases	air pollution injury
cane 1634	6429	nitrogen oxides 4130
Urginea indica, sterols, content 1451 U. maritima	sugar cane diseases 4097, 4890 annual report, USA 9221	peroxylacetyl nitrate 4130 plant responses 3306
bulb, anthocyanins, content 1453	varietal resistance, sugar cane diseases	photochemical oxidants 3306
composition 9063–9064	845, 4085, 6429, 6445–6446, 7231	alkaloids, content 2346
growing, Algeria 7116 plant, morphology 7116	varietal susceptibility, sugar cane diseases 4884	amino acids, content 449 annual report
Urocystis cepulae, leek diseases 661	<i>U.</i> spp.	Belgium 1131
U. leimbachii, Adonis spp., diseases 2350 U. magica	sugar cane diseases 422 varietal resistance, sugar cane diseases	Canada 2734 UK 867, 6774
control, onion diseases 7751	4086	Yugoslavia 3619
onion diseases, annual report, Canada	U. striiformis, control, lawns and sports	ascorbic acid, determination 5901
2734 Urocystis spp.	turf, diseases 5450 Uvariopsis congolana, alkaloids, content	axillary bud, meristem, anatomy 2912 breeding and selection 1941
onion diseases	1428	nutritional value 4370
annual report Canada 3603, 5883	Vaccinium spp. altitudes, plant, growth 4318	carbon dioxide, concentration, tolerance 6782
USA 7601	annual report, UK 3514	chromosome numbers, atlas 5158
Uromyces appendiculatus	flower, bud development 1061	copper, determination, ascorbimetry 60
annual report, East African community, bean (<i>Phaseolus</i>) diseases 5245	growing, USSR 4299 growth, studies 1061	diseases book 3626
bean (Phaseolus) diseases 4474	leaf	control 5891
annual report, Australia 5882	ascorbic acid, content 1869 bud development 1061	book 3626 France 4138
fungicides, application, adjuvants, bean (<i>Phaseolus</i>) diseases 1215	glycosides, content 1869	German Democratic Republic 1691
host histology, bean (Phaseolus) diseases	tannins, content 1869	mycoplasma, review 5164
8689 U. croci, crocus diseases 3317	medicinal use, leaf, harvesting time 1869 nitrogen, absorption, water table 6686	survey, United Arab Republic 5892 various, Togo 5599
U. fabae, bean (Vicia) diseases 2042	phosphorus, absorption, water table 6686	virus, alternative hosts, weeds 5894

Vegetables contd.	Vegetables contd.	Venezuela contd.
	nutritional value contd.	fig, growing 8119
disorders		
book 3626	nitrates 606	grapevine, growing 8119
survey, United Arab Republic 5892	organic acids, determination 5901	guava, growing 8119
various, Togo 5599	ozone, injury 4130	mango, growing 8119
	packing 8312	papaw, growing 8119
drying 22		
economics	book 5167	peach, growing 8119
Netherlands 2735	parasitic plants, book 3626	pineapple, growing 8119
	pests	sapodilla, growing 8119
Uganda 5887		
fluorine, toxicity 4130	Arvicola terrestris, control 8306	Venturia inaequalis
fungicides	biological control, Bacillus thuringiensis	aerial spraying, apple diseases 7372
residues	447	air pollution, apple diseases 4130
determination	book 3626	
	control	apple diseases 45, 53, 473, 954, 1747,
benomyl 3327		1751, 5731, 5734, 5751
dichlozoline 8590	book 3626	annual report
review 5891	France 4138	
growing	German Democratic Republic 1691	Canada 1719, 2515, 3370, 8314
		German Federal Republic 4943,
book 6476	Meloidogyne spp. 4931	6506
Bulgaria 3620–3621	nematodes 446	
Caribbean, annual report, Israel 3608	review, France 2741	Netherlands 5697
Central America, annual report, Israel	Phyllotreta spp., annual report, Sarawak	UK 903, 4172, 8318
		control
3608	3609	
economics, Netherlands 6775	Plutella xylostella, annual report,	apple diseases 4212, 6560, 6568, 7371,
German Democratic Republic 5155	Sarawak 3609	8305, 8391, 8393, 8482
under glass	slugs 1329	fungicides, mite populations, apple
economics 4122	survey, United Arab Republic 5892	diseases 5737
Netherlands 4122, 6775	various, Togo 5599	post-harvest sprays, apple diseases
in greenhouses	voles 8306	5733, 5735
mobile plastic 2738	control 8306	forecasting, apple diseases 1751, 4212
	41 00 4 00	
plastic 2738	white fly, annual report, German	incidence, apple diseases 7383
under plastic 6496	Federal Republic 7598	leaf invasion, histological studies, apple
for processing 5900	photoperiodism 2881	diseases 474
tropics	latitude 5678	Malus spp., diseases, annual report, UK
annual report	pigments 5691	6128
France 3605	processing	post-harvest foliar sprays, apple diseases
Israel 3608	drying, methods compared 4388	477
book 5147	insecticides, residues 1699	post-harvest sprays, apple diseases 7389
		resistance
tunnels, types compared 1945	research, French West Indies 5668	
Uganda 5887	root, mucilaginous layer 4938	apple diseases 44, 5736
growth substances	rotations, annual report, German Federal	annual report, Canada 2515
metabolism, indole3-acetaldoxime	Republic 7600	varietal resistance, apple diseases 1722,
5898	seed	3374, 3377, 7336, 8340, 8380
responses, GA 4148	germination, growth substances, review	V. nashicola, resistance, breeding and
review 7611	4374	selection, pear diseases 6642
seed, germination, review 4374	grading, weed seed, identification 2736	Venturia pirina
harvesting	oil, biosynthesis 3336	control, pear diseases 4212, 8393
book 5167	quality, symposium 4372	pear diseases, annual report, UK 8318
mechanical, for processing 5900	sowing	post-harvest sprays, pear diseases 7389
herbicides 3323	direct, pelleted 1943	soil pH, pear diseases 5785
injury, nitralin 1140	drills 1138	Vepris madagascarica, essential oil,
tolerance	mechanical 1138	composition 9007
chlorpropham 6779	programme, continuous production	Veratrum spp., alkaloids, biosynthesis 305°
pronamide 6779	1163	Verbascum leaf, stomata, mechanism 354
	4440	
hydrocarbons, carcinogenic 5169	tape 1138	Vernonia amygdalina, plant, composition
Indonesia 1674	treatment	786
insecticides	growth substances, review 4374	V. spp., flavonoids, extraction 2371
residues 1699	pelleted 1943	Verticillium albo-atrum
		Aconitum napellus, diseases 3963
plant 4141	seedling	
tamaron 4143	planting, mechanical 1138	apricot diseases 63
iron, determination, ascorbimetry 605	production, economics, Hungary 6776	avocado diseases 7122
irrigation	raising	control
		cultural methods, hop diseases 3325
annual report, Western Samoa 7602	containers 1138	
sprinkler, economics 1141	pots, made from plastic films 2865	hop diseases 7091
trickle 1046	soil	strawberry diseases 7540
water	fumigation, methyl bromide, residues	tomato diseases 6086
composition	1953	fruit trees and plants, vegetables, diseases
boron 5163	salinity, plant, tolerance 2740	3325
chlorine 5163	storage	geranium diseases 5409
sodium 5163	annual report, UK 2743	hop diseases
light, quality, spectral, latitude 5678	book 5167	annual report
nitrates, content, review 606	buildings, cold 1955, 4386	Belgium 6272
nutrition	cold 4386	German Federal Republic 340
annual report, German Federal	containers, cooling rate 4385	UK 9009
Republic 7600	review 7612	host enzyme activity, tomato diseases
bark 5161	sulphur dioxide, injury 4130	8691
boron, deficiency 6499	symposium 5881	incidence, hop diseases 7092
FYM 5161, 5889	temperature, latitude 5678	nematode relationship, tomato diseases
general	tissue culture, anther, annual report, UK	243
colloquium 6479	3612	nitrogen nutrition, hop, annual report,
leaf analysis 5681	transport 8312	German Federal Republic 7087
green manures, types compared 5889	book 5167	okra diseases, annual report, USA 8585
leaf analysis, annual report, New	vitamins, content 3339	resistance
Zeoland 5152		
Zealand 5152	weed control 1140, 1681, 4924, 5894,	enzyme activity
magnesium, deficiency, plant sensitivity	6780	hop diseases 8691
5162	book 3626	tomato diseases 8691
nitrogen 5161	peat soils, review 7603	soil
sources, residues value 866	weeds 6491	drenches, strawberry diseases 3550
phosphorus 2739	alternative hosts, virus diseases 5894	fumigation, antirrhinum diseases 2206
potassium 2739	Venezuela	symptoms, geranium diseases 8869
sap analysis, annual report, UK 1934	Annona muricata, growing 8119	tomato diseases 5350
zinc, toxicity 1952	avocado, growing 8119	varietal resistance
nutritional value	banana, growing 8119	hop diseases 3956
breeding and selection 4370	citrus, growing 8119	tomato diseases 7799
	5111 00) Promise 0117	101111110 01000000 1177

Subject Index		112
Verticillium contd.	Vetiveria spp. contd.	Virus contd.
V. dahliae	nutrition, NPK 1417	control contd.
absinth diseases 4739	Viburnum	seed, treatment, bean (Phaseolus)
almond diseases 7329	annual report, USA 1441, 6129, 8834	diseases 175
annual report, German Federal Republic 7087	growing in containers, nutrition 7062	shoot-tip culture bulbs, annual report, Netherlands
cacao diseases 387, 7182	peat, nutrition, nitrogen 8941	2219
fruit trees and plants, vegetables, diseases	pollen, germination, boron nutrition	carnation 2919-2920
3325	3000	chrysanthemum 1331, 2190
geranium diseases 5409	Viburnum nutrition	grapevine 7554
hop diseases	boron 7062	hydrangea 7054
annual report Belgium 6272	pollen germination 3000	narcissus 7012 raspberry 1864
German Federal Republic 340	copper 7062	soil, sterilization, peach diseases 1824
host-parasite relationships, tomato diseases	iron 7062 manganese 7062	tea catechins 3290
3325	molybdenum 7062	temperature 241
host-pathogen relationships, apricot	zinc 7062	alternating 16
diseases 1805 incidence, hop diseases 7092	Viburnum propagation	thiouracil, papaw 401
irrigation, capsicum diseases 4538	cuttings	tissue culture, grapevine 7554 detection
light intensity, capsicum diseases 4538	frame 6134	aerial photography, annual report, US.
mango diseases 4066	media 2312	600
okra diseases 387	photoperiodism 1401	biochemical
resistance, apricot diseases 1805	Vicinese proteins 3723	fiji disease virus, sugar cane 420
seed-borne, spinach diseases 6785 soil	Viciacae, proteins 3723 Vigna spp., growing, as an intercrop,	mosaic, bean (<i>Phaseolus</i>) 3704 necrotic ringspot, cherry 4236
amendments, strawberry diseases 110	pineapple 9198	prune dwarf, cherry 4236
fumigation, strawberry diseases 3325	Vinca major, flower, nectary, structure	fruit trees and plants 1715
micro-organisms, control, root exudate,	8009	grafting using nurse roots, apple 340
onion 2085	V. spp.	propagating material, ornamentals
strawberry diseases 111 annual report, UK 7489	chlorophyll, content, nitrogen nutrition 1442	2916
toxins, plum diseases 5062	disorders, chlorosis, nitrogen nutrition	root chip inoculation Prunus stem pitting virus, peach
varietal resistance, temperature,	1442	diseases 512
strawberry diseases 3325	ground cover plants 710	stem pitting virus, Prunus spp. 182
V. hemileiae, fungal parasite of, Hemileia	growth substances, chlorophyll, content,	serological, Prunus necrotic ring spot,
vastratrix, coffee 1580	chlormequat 1442	cherry, annual report, German
V. intertextum, fungal parasite, Pentalonia nigronervosa, cardamoms 6253	herbicides, injury 1323 mycoplasma, indicator plants 290, 6270	Federal Republic 6504 toluidine blue metachromasia,
V. malthousei	nutrition nutrition	Cyamopsis tetragonoloba 2807
control, herbicides, mushroom diseases	iron 1442	German Federal Republic, grapevine
8824	nitrogen, sources, chlorosis 1442	3581
mushroom diseases 4601, 8825	weed control 710	grafting, union, development, cherry
soil steaming, mushroom diseases 6956 V. spp.	Vincetoxicum officinale, flavonoids 9065 Viola	diseases 999 host
apricot diseases 8425	breeding and selection 3862	reactions
control, hop diseases 6279	chlorophyll, content, phytochrome	carbohydrates
fungal parasite, Hemileia vastatrix, coffee	relationships 4937	content, Luffa spp. 3684
7194	phytochrome, -chlorophyll relationships	metabolism, tomato 3803
hop diseases, annual report, German Federal Republic 7064	4937 Virus	chlorophyll content, <i>Luffa</i> spp. 36 chloroplast, structure, sweet basil
hosts 62	alternative hosts, weeds, vegetables,	1409
red currant diseases, annual report,	diseases 5894	enzyme activity
German Federal Republic 4298	control	capsicum 2846
resistance	antibiotics	papaw 3246
annual report, USA 1130 strawberry, annual report, UK 1856	greening, lime (<i>Citrus</i>) 9090 little leaf, eggplant 8760	growth apple, annual report, UK 903
tomato diseases, annual report,	cross protection	fruit trees and plants 2528
Netherlands 6772	chlorotic-necrotic ring spot, by	growth substances
seed treatment	chlorotic ringspot 3359	GA, tomato 3815
capsicum diseases 6899	soybean mosaic, by bean pod mottle,	NAA, tomato 3815
eggplant diseases 6899	bean (<i>Phaseolus</i>) 4472 tobacco mosaic	leaf structure
strawberry diseases annual report	tomato 2119, 5348	basil, sweet 1410
Belgium 1060	annual report, Irish Republic	cabbage, chinese 1410
UK 1856	6770	nitrogen, metabolism, capsicum
symposium 3325	cultural methods, mosaic, cucumber	2846
tolerance, hop diseases, annual report, UK	and gherkin 3682 growth substances, cherry, annual	nucleic acids, biosynthesis, bean (Vicia) 200
3954 tomato diseases	report, Canada 8314	phosphates, translocation, tomato
annual report	heat treatment	1294
Australia 5882	apple 2537	phosphorus, content, tomato 3804
USA 4368	carnation 2920	photosynthesis, Luffa spp. 3684
valerian diseases 8047	cherry 1809 chrysanthemum 2190	proteins, pea 2816 respiration
varietal resistance strawberry, annual report, USA 1440,	citrus 7141	apple 6565
5078	fruit trees and plants 1715	Luffa spp. 3684
strawberry diseases 7524-7525	grapevine 7554	transpiration, grapevine 2722
tomato diseases 5337	annual report, German Federal	host reactions
vegetables, diseases, annual report, Canada	Republic 4298 hydrangea 4722, 7054	amino acids, content, zinnia 8881
V. vilmorinii, varietal resistance, Aster spp.,	lemon 6328	chlorophyll degradation, vegetables 1259
diseases 6992	lettuce 7631	electrical resistance, apple 7376
Vetiver	mushroom 7831, 7833	enzyme activity, apple 8402
essential oil, nutrition, annual report,	peach 1809	nutrients, content, zinnia 8881
Sarawak 3933	sugar cane 1634, 7240, 8223, 8225,	identification
herbicides, toxicity, picloram, dicamba	8230, 9252 tree fruits 7320	grapevine 3581 ornamental plants, annual report,
2495 weed control 2495	hot water treatment, sugar cane 422,	German Federal Republic 6959
Vetiveria spp.	6441	incidence, rootstock-scion relationships,
diseases, Curvularia trifolii 336	inoculation, tobacco mosaic, tomato	avocado 9070
essential oil, production, economics 1417	7792–7793	indexing
growing, peat 1417	review 888	apple 8389-8390

1130		
Virus contd.	Virus contd.	Vitamin B contd.
indexing contd.	vectors contd.	content contd.
cherry 4236	Diabrotica contd.	fruit contd.
fruit trees and plants 7321	D. balteata, rugose mosaic, bean	Ziziphus jujuba 5667
peach 3473	(Phaseolus) 6845	growth substances, bean (<i>Phaseolus</i>)
strawberry, annual report, Canada	Hyperomyzus lactucae, necrotic	7717
6667	yellows, lettuce 7631	root, beetroot 5172
indicator plants	insects, apple, annual report, USA 24	Vitamin C (see Ascorbic acid)
apple, annual report, Netherlands	Lipaphis erysimi, radish diseases 1180	Vitamin E content
5698	Macrosiphum euphorbiae, subterranean	fruit, <i>Hippophaë</i> spp. 6238
apple varieties, proliferation 3406 apricot 3359	clover stunt, yellow mosaic, legumes 6846	seed, stone fruits 8424
Blumea lacera 3966	mealybugs, swollen shoot virus, cacao	Vitamin P
citron, exocortis virus, citrus diseases	1551	content
2386	Myzus persicae	fruit
cucumber and gherkin 3359	beet western yellows, lettuce 1969	Aronia melanocarpa 7487
Hyoscyamus niger, mosaic virus,	potato virus Y, capsicum 6040	latitude, apple 7417
hippeastrum diseases 1368	radish diseases 1180	varietal differences, apple 7417
Solanum khasianum 3966	subterranean clover stunt, yellow	processing
inhibition	mosaic, legumes 6846	raspberry 112
fungus extracts, Aspergillus flavus, bean	tobacco etch, capsicum 6040	strawberry 112
(Phaseolus) 4473	turnip mosiac virus, cauliflower and	Vitamin PP, applied, seed, Rosa spp. 2990
plant extracts, Datura spp., bean	broccoli 1168	Vitamins
(Phaseolus) diseases 642	nematodes, review 2502	content
isolate, purification, <i>Prunus</i> necrotic ring	Olpidium brassicae	grapevine fruit 1894
spot virus 6633	cucumber systemic necrosis	nitrogen nutrition, spinach 865
nomenclature 1693	cucumber and gherkin 4453	Phoenix spp. 6372
pest control	lettuce 4453	virus, control 888 Vitis berlandieri, hybrids, as a rootstock,
Cydia pomonella	Paralongidorus spp., grapevine, annual report, German Federal Republic	grapevine 1095
apple 8395 apple pests, annual report, Australia	4298	V. champini, varieties, as a rootstock,
450	Pentalonia nigronervosa	grapevine 1095
Pieris rapae, cabbage 1172, 7657	bunchy top, banana 9132	V. spp., pests, Hemicriconemoides chitwoodi
Trichoplusia ni, cabbage 1172, 7657	mosaic, cardamoms 6251	5132
pollen-borne, <i>Prunus</i> ringspot, stone fruits	Perkinsiella saccharina, fiji disease,	Voacanga globosa, alkaloids 4779
7475	sugar cane 421, 1633	Volatile constituents
resistance, induced 3316	Rhopalosiphum maidis, abaca mosaic	fruit 5793
rootstock-scion relationships, cherry 999	virus, manila hemp 2437	passion fruit 2429
seed-borne	Toxoptera citricidus, tristeza, citrus	Voles
mosaic, Solanum khasianum 3086	4798	fruit trees and plants
seed-borne mosaic, pea 7729	Trichodorus spp., rattle virus, tulip	pests 8306
tomato ringspot, raspberry 8490	2258	annual report, German Federal
yellow dwarf, onion 6881	Xiphinema americanum	Republic 6505
soil-borne	stem pitting virus, peach 1822	vegetables, pests 8306
bulbs, annual report, Netherlands	tomato ringspot, narcissus 2254	Volvaria spp., edible fungi 6122
2219	X. diversicaudatum	Volvariella spp.
stem pitting	arabis mosaic	edible fungi 2151
apricot 5768	carnation, annual report,	growing, media 2151
peach 5768	Netherlands 6961	V. volvacea
tobacco mosaic tulip 7910	Cymphomandra betaceae 1528 hop 3041	compost, rice straw 8833
Tulipa spp. 7910	X. index, control, grapevine 5133	edible fungi 2906, 4603, 5382, 6958 growing 4603
spread, aphids, annual report, UK 3514	vield	under plastic 8833
transmission	reduction	growing on, cotton waste 5382
dark treatment, apple 470	apple 7375	morphology 8832
tools, decontamination, citrus 3125	cucumber green mottle mosaic,	mycelium, growth 5383-5384
vectors	watermelon 8650	Vriesia spp.
Aceria sacchari, streak, sugar cane	strawberry 4330	flower, bud initiation, growth substances,
6443	tree fruits 7320	NAA 1372
Amphorophora rubi, Rubus viruses,	Virus-tested plants	growth substances, flower, bud initiation,
raspberry 4317	EMLA scheme	NAA 1372
annual report, USA 5077	fruit trees 7320	nutrition
aphids 3316	fruit trees and plants 2528	boron 7931
control, lily 2248–2249	ornamental trees and shrubs 7320	copper 7931
mosaic	German Democratic Republic, fruit trees	Hakaphos blau 7931
cauliflower and broccoli 2759 lettuce, annual report, German	and plants 7321 nursery stock, fruit trees and plants,	iron 7931 molybdenum 7931
Federal Republic 7598	France 2524	potting composts
papaw, annual report, USA 6383	propagation	amendments 7931
sugar cane, annual report, USA	citrus diseases 794	types compared 8919
6383	fruit trees and plants 1715	Wallflower
turnip mosaic, statice 2936	gooseberry, annual report, UK 7489	steroids, biosynthesis 1435
Aphis craccivora, subterranean clover	strawberry 7536	weed control, annual report, UK 8838
stunt, yellow mosaic, legumes 6846	annual report, UK 7489	Walnut
A. gossypii	tree fruits 4948	annual report
abaca mosaic virus, manila hemp	annual report, Belgium 2517	German Federal Republic 4943
2437	Special Stock Certification Scheme	USA 25
subterranean clover stunt, yellow	fruit trees 7320	dye plants 3943
mosaic, legumes 6846	ornamental trees and shrubs 7320	flowering, secondary 2664
Aulacorthum solani, Rubus viruses,	tree fruits, annual report, German Federal	growing high altitudes India 7311
raspberry 4317 Bemisia tabaci	Republic 6505 Viscaria candida, tissue culture, growth	high altitudes, India 7311 terraced slopes, Caucasus 1043
leaf curl, tomato 8786	substances, determination 7026	harvesting, fruit, loosening 6662
yellow leaf curl, tomato 3808	Vitamin A (see Carotene)	irrigation, requirements 4160
Cerotoma ruficornis, rugose mosaic,	Vitamin B	nutritional value, fatty acids 5069
bean (Phaseolus) 6845	applied	organic acids, content, seasonal variations
Chorizococcus lounsburyi,	growth substances, injury prevention,	4163
Hippeastrum-mosaic, amaryllis,	bean (Phaseolus) 7717	pruning and training 7486
annual report, Netherlands 6961	protein, content, pea 6014	sterols, choline, content 4954
Circulifer tenellus, curly top, tomato	seed, Rosa spp. 2990	weed control 98, 452, 1044
2871	content	nurseries 97
Diabrotica adelpha, rugose mosaic, bean	fruit	as windbreaks 4294
(Phaseolus) 6845	Hippophaë spp. 6238	Walnut bark, polyphenols, content 526

nuojeet index		113
Valnut diseases	Water relations contd.	Watercress contd.
Australia 6518	dormancy, fruit trees and plants 6521	growing
Marssonina juglandis, varietal resistance	flower bud	hydroponically as a non-aquatic plant
5066	initiation	1988
Walnut flower, bud development, growth	lemon 7150	with reduced water flow 1988
substances, content 2663	morning glory, report, Australia	lead, determination 4389
Walnut fruit, loosening, growth substances	3831	Watercress growth substances, shoot,
6662	raspberry 1058	growth, GA 3676
Valnut growth substances	frost resistance	Watercress nutrition
endogeneous bud 2663	apple 6574	sulphur 1989
flower 2663	Prunus spp. 7061	plant, flavour 1989
fruit 2663	fruit, size, diurnal changes, orange 3140	Watercress plant flavour 1989
leaf 2663	grafted and own-rooted plants compared, rose 4713	
fruit, loosening, ethephon 6662	growth studies	sulphur nutrition 1989 Watermelon
plant	bean (Phaseolus) 3713	annual report, USA 1935, 4368, 8585
morphology	tea 4112	chlorophyll, content, light 7690
IAA 2663	growth substances	cucurbitacin, content, pest resistance
MH 2663	content, pea 3743	1194
Walnut leaf, bud development, growth	tomato 3296, 6100, 6102	enzyme activity
substances, content 2663 Valnut, nut	leaf	light 7690
fatty acids, content 5069	copper, content, apple 1742	seedlings 8661
quality, evaluation 5070	fall, olive 1519	flowering
Walnut nutrition 5068	leaf browning, pear 516	date
deficiency symptoms 99	leaf tearing	growth substances 8666
leaf, analysis 99	Musa spp. 382	potassium nutrition, phosphorus
Walnut pests	Strelitzia spp. 382	nutrition 6816
Australia 6518	light, sugar cane 4102	growing, under plastic, spring harvesting
review, Bolivia 5671	lysimeters	3678
Walnut plant, morphology, growth	geranium 4128	hybrids 8644
substances 2663	sugar cane 427	insecticides, injury, phosvel 6824
Walnut propagation	tea, annual report, East Africa 8188	light chlorophyll, content 7690
grafting bench grafting 3513	minor elements	enzyme activity, cotyledons 7690
graft storage 3513	nutrition	lipids, content 7690
mechanical 4293	Nicotiana spp. 1343	lipids, content, light 7690
time of 96, 6666	petunia 1343	mulching
union, anatomy 5067	nutrition	bitumen, spring harvesting 3678
whip-grafting 3513	melon (cantaloup and musk) 2773	plastic 7682
Valnut rootstocks	pea 213	mutants 4441
comparative trials 7485	osmotic pressure, nutrient solution, soilless	Orobanche spp.
Juglans manschurica 8480	culture, grapevine 6749	control 8648
J. niger 8480 J. regia 8480	photosynthesis, peach, annual report, Australia 450	growth substances 5210 planting, spacing, seed production 1186
USSR 8480	physiology	pollination, flower, biology 4461
compatibility 5067	crop yield 4	seedling
Juglans spp. 7485	sugar cane 1645	growth
Valnut seed	tea 4112	light 7690
germination, storage, methods 1042	pigment, content, tomato 254	seed position in fruit 6061
treatment, methods compared 1042	plant	seed shape 6061
Walnut varieties 95	amino acids, content, vegetables 3628	seed size 6061
Mirkovski 5066	proteins, content, vegetables 3628 seed treatment	stomata, movements 8657 transpiration, anti-transpirants, stomatal
nutritional value 5069 Walnut wood, polyphenols, content 526	melon (cantaloup and musk) 7677	responses 8657
Water	tomato 6062	weed control 623, 629, 6778, 6813
content, drought resistance, peach 7444	plant composition, mint 4743	Watermelon diseases
movement	plant mechanisms, electrical analogue	cucumber green mottle mosaic
light, pea 3737	2509	symptoms 8650
tomato, excised roots 7805	planting, apple 1773	yield reduction 8650
trees and shrubs 2369	premature decline, plum 7467	cucumber green mottle mosaic virus
supply, snow cover, grapevine 8541	pruning and training, apple 5741	1999 Estratorio como 2760
Vater potential	relative humidity apricot 8426	Erwinia spp. 2769 varietal resistance 7675
diseases Fusarium spn tomato 6923	culture solution osmotic potential,	Fusarium oxysporum
diseases, Fusarium spp., tomato 6923 kale 5930	mustard 8985	f. niveum
measurement 7288	sugar cane 4102	soil, inoculum 2771
apple, 1774	root, vegetables 1223	varietal resistance 6805
bean (Vicia) 1222	root hydrostatic pressure, capsicum 8755	mosaic virus 1189
equipment 4919	rootstocks, apple 5741	Pseudomonas lachrymans 5219
root hydrostatic pressure, capsicum	salinity, bean (Phaseolus) 2790	P. spp. 2769
8755	seasonal variations, apple nutrition	Watermelon flower
plant	36–37 seed, germination, pea 1227, 6860	biology 4461 bud initiation, growth substances,
growth substance-induced fruit abscission, olive 6378	shoot, sugars, content, grapevine 5867	ethephon 633
measurement, chrysanthemum 6147	soil relationships, annual report, Australia	opening
nutrient solution, concentration,	6480	time 4461
carnation 5401	stomata	seasonal variations 3690
root diseases 3316	guard cells, bean (Vicia) 6856	sex
soil, root diseases 3316	movements, apricot 8426	growth substances 8666
xylem, measurement 7288	study technique	seasonal variations 3690
Water relations 3296 (see also	phosphorus-32 beta gauge	Watermelon fruit
Transpiration)	small fruits 8518 strawberry 8518	amino acids, sugars, content 6834, 8667 number, growth substances 8666
anti-transpirants growth substance-induced fruit	temperature	sugars, content 8667
abscission, olive 6378	apple 6537	Watermelon growth substances
sugar cane 4102	apricot 8426	flower
apical dominance, bean (Phaseolus) 8698	sugar cane 4102	sex
atmospheric relationships, annual report,	tomato 7804	chlormequat 8666
Australia 6480	varietal behaviour, apple 2540	ethephon 8666
chlorosis, apple 8382	winter hardiness, apple 6574	TIBA 8666
disease incidence, Cephalosporium	Watercress	flowering date etherhon 8666
sacchari, sugar cane 7244	cadmium, determination 4389	flowering, date, ethephon 8666

pest damaged plants, raspberry 2684

watermelon growth substances conta.	wax coatings conta.	5624
fruit	storage contd.	West Polyistan medicinal plants survey
number	papaw 8171	West Pakistan, medicinal plants, survey 5514
chlormequat 8666	Wedelia spp. growth substances	White currant
ethephon 8666 TIBA 8666	dwarfing	economics
Orobanche spp., control, MH 5210	MH-30 1384	EEC 3343
stomata, movements 8657	SADH 1384	UK 3343
Watermelon nutrition	W. trilobata, ground cover plants, growth	fungicides
calcium, deficiency, annual report,	retardants 6157	injury
German Federal Republic 7599	Weed control	copper oxychloride 4308
nitrogen, sources, sulphur-coated 3683	Agropyron repens, rhubarb, annual report,	zineb 4308
NPK 3683, 6816	UK 5885	residues
potassium, sources, sulphur-coated 3683	bean (Phaseolus) 167	fruit
Watermelon pests	biological 4139	benomyl 4308 mancozeb 4308
Agriotes spp., seed, treatment 2002	book 7277	maneb 4308
aphids 631 Aulacophora foveicollis, varietal resistance	Convolvulus spp., grapevine 5839,	production and trade
1194	6731–6732	EEC 3343
mites 631	cover crops	UK 3343
thrips 631	coconut 9147	White currant diseases
Trichoplusia ni, control 6824	coffee 1571	Drepanopeziza ribis, varietal resistance
Watermelon rootstocks, Lagenaria siceraria,	Cynodon spp., grapevine 6731	4308
disease incidence 1999	ditch banks, sugar cane, annual report,	Gloeosporium spp., varietal resistance
Watermelon seed	USA 1530	1048
drying, silica gel 1137	drains, tea 4896	Mycosphaerella ribis, varietal resistance 4308
germination 5207 sowing, orientation 6061	fire-breaks, sugar cane 6434 high density planting	White currant varieties
oil, extraction 1184	apple 464	disease resistance
production	cacao 8133	Drepanopeziza ribis 4308
planting, spacing 1186	Imperata cylindrica, coconut 9147	Mycosphaerella ribis 4308
potassium nutrition, phosphorus	irrigation channels, sugar cane, annual	Wind
nutrition, nitrogen nutrition 6816	report, USA 1530	damage
storage 1185	limited, peach 79	citrus 1473–1474
treatment	methods compared	fruit, citrus, annual report, Australia
hypertonic salt solution, wafering 6061	grapevine 5839, 6732	4782
insecticides 2002	leaf, composition, apple, annual report,	orange 1474
Watermelon varieties	Netherlands 5697	pruning and training, lemon 3992 strawberry 1877
Allsweet 4445 annual report	storage disorders, apple, annual report, Netherlands 5697	trees and shrubs 2979
India 3607	mulching, tea 7268	protection
Sarawak 3609	nurseries	plastic films
Arka Tinda 8644	apple 2561, 4188	grapevine 1901
comparative trials	plum 4188	holly 7037
annual report, Australia 7596	rubber 7225, 8180, 9211	respiration
USA 5946	tree fruits 7316, 7357	bean (Phaseolus) 5254
disease resistance	walnut 97	magnolia 5254
Erwinia spp. 7675	pest incidence, Pratylenchus penetrans,	pea 5254
Fusarium oxysporum, f. niveum 6805	peach 7452	water relations, cucumber and gherkin
flower, sex 3690	Ranunculus spp., grapevine 5839	5959 Windbreaks
Stocks 647 7676 Watsonia diseases, annual report,	seed beds, vegetables 2078 vegetables, annual report, Irish Republic	aerodynamics 4923
Netherlands 2219	1939	for arid regions 4923
Wax	Weeds	bamboo plants, citrus 1473
biosynthesis	alternative hosts	cherry 4294
fruit, citrus, annual report, Australia	virus diseases	fruit trees and plants 7315
4782	lettuce 7631	Malus spp. 3930
inhibition, EPTC, cabbage 1136	vegetables 5894	microclimate 11, 4923
composition	aquatic	peach 4294
fruit, plum 5064	control 437	for pear, disease incidence 85
leaf, Desmodium spp. 3055	review 6492	plants for 7315
removal leaf	communities 6491 competition	carrot 5373
cabbage 1136	cabbage 1981	strawberry 7531
growth substances, absorption, pear	container-grown plants, holly 4693	pollination, apple 4222
5054	onion 6879, 7748	siting 7315
herbicides, bean (Phaseolus) 8684	annual report, German Federal	Sorbus spp. 4294
structure	Republic 7599	value 4923, 7315
fruit	orange 8066	walnut 4294
apple 922, 6524	sugar cane 8204	Winter hardiness (see also Frost)
cherry 2618	as ground cover plants, grapevine 7560 identification 6491	bud dormancy, apple 6575
Wax coatings chestnut, annual report, USA 25	mulch, peach 4256	cherry 5020 citrus, annual report, USA 2375
fruit	seed	containers, types compared, holly 621
citrus 3154, 4809 -	identification, seed grading, vegetables	desiccation, blueberry 6688
injured, citrus 3154	2736	dormancy, fruit trees and plants 6521
mango 8163	seed sorting, air flow, vegetables 4373	flower bud initiation, cherry 8443
mechanical injury resistance, citrus	Weigela	grafting method, apple 8352
9103	breeding and selection, annual report,	leaf removal
raspberry 5811	Netherlands 4604	apricot 5756
fungicides	cold, resistance, photoperiodism 5485	fruit trees and plants 6521
application 2404	light	measurement
tomato 6105 graft union protection, apple 5714	far-red, cold resistance 5485 red, cold resistance 5485	apple 6539 strawberry 8507
growth substances	photoperiodism, cold resistance 5485	nitrogen, content, Stenotaphrum spp.
application	Weigela propagation, cuttings, frame 6134	2179, 5448
2,4-D, citrus 1506	Weigela root	nitrogen nutrition
GA, apple 1797	development, soil temperature 3925	blueberry 7515
sett, sugar cane 6430	growth, soil temperature 3925	cherry 6617
storage	Weigela soil	holiy 2311
apple 8412	temperature	pyracantha 2311
banana 4044, 5606	root development 3925	peach 5020
cucumber and gherkin 5205, 5970	root growth 3925	pest damaged plants, raspberry 2684

Subject Index		1133
Winter hardiness contd.	Xanthomonas phaseoli contd.	Xylosandrus contd.
photoperiodism, tree fruits, annual report,	resistance contd.	X. morigerus
Canada 8314 pome fruits, annual report, USA 24	bean (Vicia) diseases 5248 seed germination, bean (Phaseolus)	alternative hosts avocado
raspberry 2684	diseases 8677	coffee pests 8154
rootstocks, apple 7352	tomato diseases 5247	Salix humboldtiana, pests 8154
seed dormancy, apple 2542	varietal resistance, bean (<i>Phaseolus</i>)	coffee
small fruits, annual report, USA 5077 sugars, content, vegetables 7662	diseases 5234, 7696 X. pruni	avocado pests 8154 Salix humboldtiana, pests 8154
temperature, tree fruits, annual report,	control, peach diseases 7448	Salix humboldtiana
Canada 8314	Prunus spp., diseases 915	avocado pests 8154
trees and shrubs 1382 varietal differences	stone fruits, diseases 6609	coffee pests 8154
anemone, annual report, UK 3834	varietal resistance peach diseases 1816	Xylotrupes spp., coconut pests 2444 Yearbook
apricot 5756 black currant 8484	plum diseases 3507, 5060, 7470	horticultural, Denmark 3298
grapevine 7551, 7559, 8539	X. spp., symptoms, geranium diseases 8869	International Dendrology Society 3906
hazel 5025	X. vasculorum	lily, USA 5427–5428
pear 5045 rose 5473	resistance, cabbage diseases 2760 sugar cane diseases 4889	production, FAO 1672 South African sugar 7229
water relations, apple 6574	X. vesicatoria	tomato, USA 2853
Wisteria	bean (Phaseolus) diseases 5247	Trade, FAO 863
pterocarpanoids 6233	capsicum diseases, annual report, USA 4367	Yeasts, fig diseases 8450 Yerba maté
taxonomy, chemotaxonomy 6233 Work studies	host-parasite relationships, nitrogen	alkaloids, determination 5596
grafting, grapevine 4339	metabolism, capsicum diseases 2848	cover crops, Medicago polymorpha 8118
packing, flowers, rose 4704	host reactions, vegetables, diseases 7794	Yerba maté soil, cultivation, methods
planting, tulip 1317, 8904 pricking out, seedlings, tulip 1317	resistance, tomato diseases 2110 tomato diseases 180, 5247	compared 6381 Yield
Wound dressings, fruit trees and plants	annual report, USA 4368	estimation
8327	varietal resistance, capsicum diseases	methods compared, pome fruits 979
Wound healing cherry 8433	4532–4533	sampling, sugar cane, annual report, South Africa 7230
enzyme activity, coleus 280, 307	X. vitians lettuce diseases 8608	tree age, macadamia 4822
growth substances, fruit trees and plants	varietal resistance, lettuce diseases 8608	forecasting
8327 treatments	X. vitis-viniferae, India, grapevine diseases	Sorbus aucuparia 1045 Vaccinium spp. 1870–1871
Santar	7572	potential, assessment 8296
apple 4207	Xanthosoma brasiliense	Yields, crop, symposium 4
pear 4207 Xanthium spp.	diseases, mosaic 7823 growing 7823	Yucca spp., calcium, translocation, annual report, Netherlands 6962
electrical activity 3847	X. spp.	Yugoslavia, fruit, production and trade
flower, bud initiation, photoperiodism	diseases, dasheen mosaic 2975	2520
photoperiodism, flower bud initiation	growing	Zantedeschia aethiopica chloroplast, development 8911
1347	as an intercrop, pineapple 9198 vegetable crop 6119	growth substances
Xanthomonas albilineans	leaf	endogenous
control, sugar cane diseases 8226 sugar cane diseases 423	composition	fruit 8911 spathe 8911
annual report	protein 6119 vitamins 6119	Z. spp.
Australia 9219	Xiphinema americanum	annual report, Austria 265
South Africa 7230 varietal resistance	lawns and sports turf pests 2265	bulb size
sugar cane, annual report, Guyana	raspberry pests 5810	flower
9220	vectors, tomato ringspot, narcissus pests 2254	height 4660
sugar cane diseases 4084 Xanthomonas begoniae, begonia diseases,	virus vectors, stem pitting virus, peach	number 4660 storage
annual report, Netherlands 6126, 6961	pests 1822	temperature
X. campestris	X. bakeri, raspberry pests 532 X. brevicolle	flower height 4660
bean (<i>Phaseolus</i>) diseases 5247 cauliflower and broccoli diseases 3664	coffee pests 1581	number 4660
host-pathogen relationships, cabbage	soil treatment, litchi pests 6373	diseases
diseases 1985 hybrid resistance, cabbage diseases 5188	X. diversicaudatum hop pests	annual report, USA 2152 dasheen mosaic 2975
resistance, cabbage diseases 2760	annual report, UK 3040	Xanthomonas campestris 2961
tomato diseases 5247	vectors, nettlehead, annual report, UK	dwarfing, growth substances, ancymidol
varietal resistance brussels sprouts diseases 4420	9009 vectors	4660 flower
cabbage diseases 4420	arabis mosaic	size
Zantedeschia spp., diseases 2961	carnation pests, annual report,	nitrogen nutrition 2950
Xanthomonas citri citrus diseases 797, 4475	Netherlands 6961 Cyphomandra betaceae, pests 1528	soil moisture 2950 growing, in pots, annual report,
pathogen survival, citrus diseases 5561	hop pests 3041	Netherlands 6127
pest relationships, citrus diseases 5562	latent strawberry ringspot, rose pests	growth substances
varietal resistance, citrus diseases 8059 X. dieffenbachiae, philodendron diseases	7947 X. inde x	dwarfing, ancymidol 2950, 4660 flowering date, ancymidol 2950
7027	soil fumigation, grapevine pests 7573	nutrition, nitrogen 2950
Xanthomonas hyacinthi	vectors, fanleaf, grapevine pests 5133	soil
bulb treatment, heat, hyacinth diseases 2242, 4656	X. spp. population studies, decline association,	moisture flower, size 2950
hyacinth diseases, annual report,	citrus pests 8078	plant height 2950
Netherlands 2219	sugar cane pests 7246	varieties
X. malvacearum, resistance, cabbage diseases 2760	<i>Xyleborus fornicatus</i> clonal susceptibility, tea pests 4899	evaluation 7009 Florida 7009
X. pelargonii, infection process, geranium	tea pests 8275	Zanthoxylum alatum, essential oil, medicinal
diseases 5408	annual report	properties 3016
X. phaseoli aerial survey, bean (Phaseolus) diseases	India 1657 Sri Lanka 8262	Z. elephantiasis canthin-6-one, content 2372
179	X. morstatti, hybrid resistance, coffee pests	medicinal properties 2372
bean (<i>Phaseolus</i>) diseases 180, 1213,	1569 X. spp., cacao pests 2444	Zeadiatraea spp., Mexico, sugar cane pests 6440
4474, 5247 resistance	Xylosandrus compactus, avocado pests,	Zebrina pendula, leaf, age, cell injury .
bean (Phaseolus) diseases 5248	annual report, USA 8051	resistance 5457

Zephodia convolutella
biological control
black currant pests 7498
gooseberry pests 7498
Zephyranthes spp.
breeding and selection 3881
genetics 3881
Zetzellia mali, predator on, Panonychus
ulmi, apple 1756, 4213 Zeuzera pyrina, olive pests 4028
Zeuzera pyrina, olive pests 4028
Zine
absorption
bean (Phaseolus), annual report, USA
3616
foliar, coffee 394 leaf
coffee 3200
sources, coffee 7192
spray pH, coffee 7192
orange 6342-6343
soil salinity
squash 6912
squash 6912 tomato 6912
application
dormant buds, apple 948
foliar
almond 8333
apple 5011
disease incidence, grapevine 7568
fruit trees and plants 913
grapevine 7568
orange 1482, 4791, 6342–6343
ornamental flowers 1343 precipitants, orange 9086
precipitants, orange 9086
residues, orange 9086
methods compared orange 7138
pecan nutrition 1036
availability
nitrogen nutrition
chrysanthemum 8589
vegetables 8589
orange 8073
calcium nutrition, orange 8073
content
copper nutrition, coffee 393
leaf
nitrogen nutrition, sources, peach
nitrogen nutrition, sources, peach 3470
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 deficiency
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 deficiency apple 8385
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 deficiency apple 8385
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms cauliflower and broccoli nutrition
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms cauliflower and broccoli nutrition 1983
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms cauliflower and broccoli nutrition 1983 coffee 3197
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms cauliflower and broccoli nutrition 1983 coffee 3197 grapevine, annual report, German
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variajions, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms cauliflower and broccoli nutrition 1983 coffee 3197 grapevine, annual report, German Federal Republic 4298
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms cauliflower and broccoli nutrition 1983 coffee 3197 grapevine, annual report, German Federal Republic 4298 determination, atomic absorption
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variajions, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms cauliflower and broccoli nutrition 1983 coffee 3197 grapevine, annual report, German Federal Republic 4298 determination, atomic absorption spectrophotometry 8290 flower, formation, ornamental flowers
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms cauliflower and broccoli nutrition 1983 coffee 3197 grapevine, annual report, German Federal Republic 4298 determination, atomic absorption spectrophotometry 8290 flower, formation, ornamental flowers 1343
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms cauliflower and broccoli nutrition 1983 coffee 3197 grapevine, annual report, German Federal Republic 4298 determination, atomic absorption spectrophotometry 8290 flower, formation, ornamental flowers 1343 fruit
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 seasonal variations, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms cauliflower and broccoli nutrition 1983 coffee 3197 grapevine, annual report, German Federal Republic 4298 determination, atomic absorption spectrophotometry 8290 flower, formation, ornamental flowers 1343 fruit composition
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms cauliflower and broccoli nutrition 1983 coffee 3197 grapevine, annual report, German Federal Republic 4298 determination, atomic absorption spectrophotometry 8290 flower, formation, ornamental flowers 1343 fruit composition apple 5011
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms cauliflower and broccoli nutrition 1983 coffee 3197 grapevine, annual report, German Federal Republic 4298 determination, atomic absorption spectrophotometry 8290 flower, formation, ornamental flowers 1343 fruit composition apple 5011 orange nutrition 1478
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 seasonal variations, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms cauliflower and broccoli nutrition 1983 coffee 3197 grapevine, annual report, German Federal Republic 4298 determination, atomic absorption spectrophotometry 8290 flower, formation, ornamental flowers 1343 fruit composition apple 5011 orange nutrition 1478 quality, juice content, orange
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms cauliflower and broccoli nutrition 1983 coffee 3197 grapevine, annual report, German Federal Republic 4298 determination, atomic absorption spectrophotometry 8290 flower, formation, ornamental flowers 1343 fruit composition apple 5011 orange nutrition 1478 quality, juice content, orange 6342–6343
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms cauliflower and broccoli nutrition 1983 coffee 3197 grapevine, annual report, German Federal Republic 4298 determination, atomic absorption spectrophotometry 8290 flower, formation, ornamental flowers 1343 fruit composition apple 5011 orange nutrition 1478 quality, juice content, orange 6342–6343 iron imbalance, mangosteen nutrition
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms cauliflower and broccoli nutrition 1983 coffee 3197 grapevine, annual report, German Federal Republic 4298 determination, atomic absorption spectrophotometry 8290 flower, formation, ornamental flowers 1343 fruit composition apple 5011 orange nutrition 1478 quality, juice content, orange 6342–6343 iron imbalance, mangosteen nutrition 11667
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms cauliflower and broccoli nutrition 1983 coffee 3197 grapevine, annual report, German Federal Republic 4298 determination, atomic absorption spectrophotometry 8290 flower, formation, ornamental flowers 1343 fruit composition apple 5011 orange nutrition 1478 quality, juice content, orange 6342–6343 iron imbalance, mangosteen nutrition 1667 leaf
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms cauliflower and broccoli nutrition 1983 coffee 3197 grapevine, annual report, German Federal Republic 4298 determination, atomic absorption spectrophotometry 8290 flower, formation, ornamental flowers 1343 fruit composition apple 5011 orange nutrition 1478 quality, juice content, orange 6342–6343 iron imbalance, mangosteen nutrition 1667 leaf
nitrogen nutrition, sources, peach 3470 phosphorus nutrition, apple 1742 rootstocks, plum 2657 seasonal variations, apple 6554 varietal differences, apple 6554 seasonal variations, hop 344 shoot root temperature, chrysanthemum 8863 seasonal variations, apple 6554 varietal differences, apple 6554 varietal differences, apple 6554 deficiency apple 8385 apple nutrition 948 chloroplast, proteins, content, tomato 4564 chlorosis, orange 3121 coffee 9166 cucumber and gherkin 7683 diagnosis, enzyme activity, vegetables 1145 pecan nutrition 1036–1037 symptoms cauliflower and broccoli nutrition 1983 coffee 3197 grapevine, annual report, German Federal Republic 4298 determination, atomic absorption spectrophotometry 8290 flower, formation, ornamental flowers 1343 fruit composition apple 5011 orange nutrition 1478 quality, juice content, orange 6342–6343 iron imbalance, mangosteen nutrition 1667 leaf

```
Zinc contd.
  leaf analysis contd.
     cucumber and gherkin 7683
     orange nutrition 1478
  sugar cane 412
metabolism, rosetting, fruit trees and
plants 913
  nitrogen, content, orange nutrition 1481
  plant, anatomy, grapevine nutrition 5105
  plant analysis
bean (Phaseolus) nutrition 2019
     sugar cane 6437
  respiration
leaf, tomato 6080, 6922
root, tomato 6922
  seed, production, ornamental flowers 1343
   sources
     chrysanthemum 8589
     compared, orange 8073
     fruit, quality, orange 3121
     nutrient absorption, orange 3121
pecan nutrition 1036
vegetables 8589
   toxicity
     cucumber and gherkin 157, 7683 grapevine 7567
     nitrogen nutrition
        chrysanthemum 8589
        vegetables 8589
     symptoms, bean (Phaseolus) 7704
      vegetables
  regetables
nutrition 1952
tissue culture 121
translocation, bean (Phaseolus), annual
report, USA 3616
water relations, melon (cantaloup and
musk) 2773
Zinnia
  annual report, Canada 2910
   seedling, raising, containers 2218
Zinnia diseases
   mosaic
     host amino acids, content 8881
   host nutrients, content 8881
pea mild mosaic 4502
Zinnia nutrition
nitrogen 6133
flower, number 7892
phosphorus 6133
Zinnia seed, germination 725
Ziziphora afghanica, essential oil,
    composition 3949
Ziziphus jujuba
   frost, resistance 5667
   fruit, composition 5667
   growth substances, cuttings, treatment,
      IBA 3293
   propagation, cuttings, treatment, growth substances, IBA 3293
Z. mauritiana
   fruit, morphology 9280
   propagation
      budding
        shield 9281
time 9281
   rootstocks, propagation, seed 3292
   seed, treatment, methods compared
   varieties
     fruit, ripening time 9280 identification 3291
      indentification, fruit 9280
 Z. Spp.
   carbohydrates, content 2336
   fruit, phenolic compounds, content 858 glycosides, content 2336
   growing, India 5665
pests, Meridarchis scyrodes 857
   varieties, India 5665
   water, flow 2369
 Zoysia spp.
   lawns and sports turf, weed control 8913
   pests
     nematodes, resistance 4672
Sphenophorus venatis vestita 4672
 Zygocactus spp.
   flower
      bud initiation
         photoperiodism 6200
         temperature 6200
   flowering, photoperiodism 7028
   photoperiodism
      flower bud, initiation 6200
```

Zygocactus spp. contd.
photoperiodism contd.
flowering 7028
temperature, flower bud, initiation 6200

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1136 American Tomato Yearbook American Vegetable Grower Anais da Escola Superior de Agricultura "Luiz de Queiroz" Anais do Instituto Superior de Agronomia Analele Institutului de Cercetări pentru Cereale și Plante Tehnice, C Analele Institutului de Cercetări pentru Protecția Plantelor Anales Científicos, Peru Anales de Edafología y Agrobiología Anales de la Estación Experimental de Aula Dei Anales del Instituto de Biología Universidad Nacional Autónoma de México, Botánica Anales del Instituto Nacional de Investigaciones Agrarias, Producción Vegetal Anales del Instituto Nacional de Investigaciones Agrarias, Protección Vegetal Anales Instituto Nacional de Investigaciones Agronómicas Analyst Analytica Chimica Acta Analytical Abstracts Analytical Biochemistry Analytical Chemistry Angewandte Botanik Annales Academiae Scientiarum Fennicae, A(II) Annales Academiae Scientiarum Fennicae, A(IV) Annales Agriculturae Fenniae Annales Agronomiques Annales de l'Amélioration des Plantes Annales Bogorienses Annales Botanici Fennici Annales Entomologici Fennici Annales de Gembloux Annales de l'Institut National Agronomique Annales de l'Institut National de la Recherche Agronomique de Tunisie Annales de l'Institut Phytopathologique Benaki Annales de Physiologie Végétale, France Annales de Phytopathologie Annales de Technologie Agricole Annales Universitatis Mariae Curie-Skłodowska, C Annales Universitatis Mariae Curie-Skłodowska, E Annales Zoologici Fennici Annales de Zoologie – Ecologie Animale Annali Accademia Nazionale di Agricoltura Annali della Facoltà di Agraria, Perugia Annali della Facoltà di Agraria, Pisa Annali della Facoltà di Agraria, Università Cattolica del Sacro Cuore, Milano Annali della Facoltà di Agraria, Università degli Studi, Milano Annali della Facoltà di Scienze Agrarie della Università degli Studi di Napoli Portici Annali della Facoltà di Scienze Agrarie della Università degli Studi di Torino Annali dell'Istituto Sperimentale Agronomico Annali dell'Istituto Sperimentale per l'Agrumicoltura Annali dell'Istituto Sperimentale per le Colture Industriali Annali dell'Istituto Sperimentale per la Frutticoltura Annali dell'Istituto Sperimentale per la Valorizzazione Tecnologica dei Prodotti Agricoli Annals of Agricultural Science Annals of Applied Biology Annals of Botany Annals of the Entomological Society of America Annals of the Missouri Botanical Garden Annals of the New York Academy of Sciences Annals of the Phytopathological Society of Japan Annual Journal, Royal New Zealand Institute of Horticulture Annual Departmental Report by the Director of Agriculture and Fisheries, Hong Kong Annual Report, Agricultural Experiment Station of the University of Kentucky Annual Report of the Agricultural Experiment Station, University of Wisconsin Annual Report of the Agricultural Research Council Annual Report of the Agricultural Research Institute of Ontario Annual Report, Agricultural Research Station, Kade (University of Ghana) Annual Report, Akita Prefecture Fruit-Tree Experiment Station Annual Report, An Foras Talúntais (The Agricultural Institute) Annual Report of the Aomori Apple Experiment Station Annual Report of the Bureau of Sugar Experiment Stations, Queensland Annual Report, CSIRO Division of Horticultural Research Annual Report, CSIRO Division of Irrigation Research Annual Report, CSIRO Division of Land Research Annual Report, CSIRO Division of Plant Industry Annual Report on Cacao Research, University of the West Indies Annual Report of the Central and Regional Arecanut Research Stations Annual Report of the Citrus Research Unit of the University of the West Indies Annual Report, Cocoa Research Institute, Ghana Annual Report of the Cocoa Research Institute of Nigeria Annual Report, Coffee Research Foundation, Kenya Annual Report, Commonwealth Scientific and Industrial Research Organization Annual Report, Cyprus Agricultural Research Institute Annual Report, Department of Agriculture, British Columbia Annual Report, Department of Agriculture, Forests and Fisheries, Western Samoa

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1138 Arkansas Farm Research Arnoldia Arquivos do Instituto Biológico Arsmelding, Norges Landbruksvitenskapelige Forskningsråd Arsredogörelse, Svenska Institutet für Konserveringsforskning Arsskrift, Kongelige Veterinaer- og Landbohøjskole Arsskrift for Planteskoledrift og Dendrologi Atti Accademia Italiana della Vite e del Vino Atti Istituto Botanico della Università Laboratorio Crittogamico Pavia Australian Citrus News Australian Horticultural Research Newsletter Australian Journal of Agricultural Research Australian Journal of Biological Sciences Australian Journal of Botany Australian Journal of Chemistry Australian Journal of Experimental Agriculture and Animal Husbandry Australian Journal of Soil Research Australian Science Index Australian Vegetable Research Newsletter Awamia B.C.F.G.A. Quarterly Report BFMIRA Abstracts (continued as Food RA Abstracts) B.V.O. Mededelingen Bacteriological Reviews Baileya Banana Bulletin Bedrijfsontwikkeling Bee World Begonian Beiträge zur Entomologie Beiträge zur Tropischen und Subtropischen Landwirtschaft und Tropenveterinärmedizin Berättelse för Verksamheten, Avdelningen för Växtförädling av Frukt och Bär Lantbrukshögskolan, Balsgård Beretning fra Faellesudvalget for Prøvedyrkning af Køkkenurter Berichte des Deutschen Wetterdienstes Berichte des Öhara Instituts für Landwirtschaftliche Biologie Okayama Universität Besseres Obst Better Crops with Plant Food Better Fruit . . . Better Vegetables Bhartiya Krishi Anusandhan Patrika Bibliografia de Café Bibliographie Agricole Courante Roumaine Bibliographie der Pflanzenschutz-Literatur Bibliographien des Deutschen Wetterdienstes Biennial Report, California Department of Agriculture Biennial Report of the Director, Kansas State University Agricultural Experiment Station Biennial Report, Georgia Agricultural Experiment Stations Biennial Report, Hawaii Agricultural Experiment Station Biennial Report of the Waite Agricultural Research Institute Biochemical Journal Biochemical Society Transactions Biochimica et Biophysica Acta Biokhimiya Biológia, Czechoslovakia Biologia Plantarum Biological Reviews Biológico Biologisches Zentralblatt Biometrics Biometrika BioScience Biuletyn Warzywniczy Bloembollencultuur Bloembollengids Bodenkultur Boletín para Bibliotecas Agrícolas Boletin Informativo Instituto Salvadoreño de Investigaciones del Café Boletín del Instituto Nacional de Investigaciones Agronómicas Boletin de Patología Vegetal y Entomología Agrícola Bollettino del Laboratorio di Entomología Agraria "Filippo Silvestri" Bollettino di Zoologia Agraria e di Bachicoltura Boron in Agriculture **Botanical Gazette** Botanical Journal of the Linnean Society Botanical Review Botanicheskii Zhurnal Botyu-Kagaku Bragantia British Farmer Brittonia

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Deciduous Fruit Grower

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Dissertation Abstracts International, B

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Experimental Work, Edinburgh School of Agriculture

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Gordian

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Hilgardia

Himachal Journal of Agricultural Research

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Hort Report

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Kew Bulletin

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Key to Turkish Science, Biological Sciences

Key to Turkish Science, Chemistry Khimiya v Sel'skom Khozyalstve Kísérletűgyi Közlemények, C

Kita Nihon Byogaichu Kenkyukai (Annual Report of the Society of Plant Protection of North Japan)

Knižní a Dokumentační Zpravodaj

Korean Scientific Abstracts

Kungl. Skogs- och Lantbruksakademiens Tidskrift

LSHR Journal

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Lal-Baugh

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Landwirtschaftliche Forschung

Landwirtschaftliches Jahrbuch der Schweiz

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Lasca Leaves

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Lily Yearbook, UK

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Lucrări Științifice, Institutul Agronomic Timișoara, Agronomie

Lucrări Științifice, Institutul de Cercetari și Proiectari pentru Păstrarea și Valorificarea Legumelor și Fructelor

Lucrări Stiințifice, Institutul de Studii, Cercetări și Proiectări pentru Construcții Hortiviticole

MAFES Research Highlights

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Malaysian Agricultural Journal Malaysian Agricultural Research

Malaysian Pineapple

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Microscopy

Mikologiya i Fitopatologiya

Mikrobiologiya

Minnesota Horticulturist

Minutes of the Canada Weed Committee, Eastern Section

Miscellaneous Publications of the National Institute of Agricultural Sciences, C

Mississippi Farm Research (continued as MAFES Research Highlights)

Mitteilungen aus der Biologischen Bundesanstalt für Land- und Forstwirtschaft Berlin-Dahlem

Mitteilungen der Deutsche Landwirtschafts-Gesellschaft Mitteilungen des Obstbauversuchsringes des Alten Landes

Mitteilungen Rebe und Wein, Obstbau und Früchteverwertung

Mitteilungen für die Schweizerische Landwirtschaft Monthly Bulletin of Agricultural Economics and Statistics

Morris Arboretum Bulletin

List of Journals scanned

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Mushroom Journal

Mycologia

Mysore Journal of Agricultural Sciences

NIAE Newsletter

Nachrichtenblatt des Deutschen Pflanzenschutzdienstes Nachrichtenblatt für den Pflanzenschutzdienst in der DDR

Naše Liečivé Rastliny

National Cactus and Succulent Journal

Nature, UK Nature New Biology Nature Physical Science

Naturwissenschaften

Nauchni Trudove, Vissh Selskostopanski Institut "Georgi Dimitrov", Rasteniev dstvo Nauchni Trudove, Vissh Selskostopanski Institut "Georgi Dimitrov", Obshcho Zemledelie Nauchni Trudove, Vissh Selskostopanski Institut "Vasil Kolarov" Nauchnye Doklady Vysshei Shkoly, Biologicheskie Nauki

Nematologica

Netherlands Journal of Agricultural Science

Netherlands Journal of Plant Pathology

New Commonwealth

New Mexico Extension News

New Phytologist

New Scientist

New York State Flower Industries Bulletin

New York's Food and Life Sciences Bulletin

New Zealand Commercial Grower

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New Zealand Journal of Agricultural Research New Zealand Journal of Agriculture

New Zealand Journal of Botany

New Zealand Journal of Experimental Agriculture

New Zealand Journal of Science

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Newsletter, Indian Society for Nuclear Techniques in Agriculture and Biology

Newsletter, New York Botanical Garden

Nigeria Trade Journal

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Nordisk Jordbrugsforskning

Norsk Hagetidend

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Ohio Report on Research and Development

Oil Palm News

Oklahoma Farm Research Flashes

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Orchardist of New Zealand

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Parasitica

Parasitologische Schriftenreihe

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Parks and Sports Grounds

Peat Abstracts

Peat and Plant News

Pedobiologia

Pépiniéristes Horticulteurs Maraîchers

Pesquisa Agropecuária Brasileira

Pesticide Biochemistry and Physiology

Pesticide Progress

Pesticide Science

Pesticides Review

Pflanzenarzt

Pflanzenschutz Nachrichten Bayer

Pflanzenschutzberichte Pharmazie Philippine Agriculturist Philippine Journal of Plant Industry Philippine Journal of Science Philosophical Transactions of the Royal Society, B Phosphorus in Agriculture Photogrammetric Record Photosynthetica | Physical Sciences, New York, USA Physiologia Plantarum Physiological Plant Pathology Physiologie Végétale Phytiatrie-Phytopharmacie Phytochemistry Phytoma Phytomorphology Phyton, Argentina Phytoparasitica Phytopathologia Mediterranea Phytopathologische Zeitschrift Phytopathology Phytophylactica Phytoprotection Plant and Cell Physiology Plant Disease Reporter Plant Pathology Plant Propagator Plant Protection Plant Science Plant Science Letters Plant and Soil Planta Planta Medica Planter, Malaya Planters' Bulletin of the Rubber Research Institute of Malaya Planters' Chronicle Planters Journal and Agriculturist Plantes Médicinales et Phytothérapie Plants and Gardens Pochvoznanie i Agrokhimiya Polish Journal of Soil Science Poljoprivredna Znanstvena Smotra Pol'nohospodárstvo Poona Agricultural College Magazine Portugaliae Acta Biologica, A Potash Review Power Farming Prace Instytutu Sadownictwa w Skierniewicach Preslia Principes Priroda, USSR Probleme Agricole Proceedings of the American Society of Sugar Cane Technologists Proceedings of the Annual Congress of the South African Sugar Technologists' Association Proceedings of the Annual Meeting, Arkansas State Horticultural Society Proceedings of the Annual Meeting, Connecticut Pomological Society Proceedings, Annual Meeting Massachusetts Fruit Growers' Association Inc. Proceedings of the Annual Meeting, New York State Horticultural Society Proceedings of the Annual Meeting, Washington State Horticultural Association Proceedings of the Association of Official Seed Analysts Proceedings of the Canadian Phytopathological Society Proceedings of the Entomological Society of Ontario Proceedings of the Florida State Horticultural Society Proceedings of the Helminthological Society of Washington Proceedings of the Indian Academy of Sciences, B Proceedings of the International Seed Testing Association (continued as Seed Science and Technology) Proceedings of the International Shade Tree Conference Proceedings of the Meeting of British West Indies Sugar Technologists Proceedings of the Meeting of the Holly Society of America Proceedings of the National Academy of Sciences of the United States of America Proceedings of the Oklahoma Academy of Science Proceedings of the Royal Institution of Great Britain Proceedings of the Royal Society of London, B Proceedings of the Scientific Conference, Tea Scientific Department, United Planters Association of Southern Proceedings, Soil and Crop Science Society of Florida Proceedings of the Tropical Region, American Society for Horticultural Science Proceedings of the Utah Academy of Sciences, Arts and Letters Proceedings of the Zoological Society Progre's Agricole et Viticole Progress Report, Experimental Husbandry Farms and Experimental Horticulture Stations Progressive Horticulture

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Queensland Journal of Agricultural and Animal Sciences

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Rapport Annuel, Institut pour l'Encouragement de la Recherche Scientifique dans l'Industrie et l'Agriculture

Rapport Annuel, Institut Français de Recherches Fruitières Outre-Mer

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Rasen Turf Gazon Rasteniev''dni Nauki Rastitelna Zashchita Rastitel'nye Resursy

Record of Agricultural Research Referativnyi Zhurnal, 55

Refrigeration and Air Conditioning Report and Accounts, National Institute of Agricultural Botany Report of Activities, Rubber Board, India

Report on Advisory Services and Howard Davis Farm, States of Jersey Department of Agriculture Report of the Annual Date Growers' Institute

Report, Arthur Rickwood Experimental Husbandry Farm Report, Commonwealth Institute of Biological Control

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Report, Weed Research Organization (Agricultural Research Council)

Reports on the Progress of Applied Chemistry

Research Bulletin of Bunda College of Agriculture

Research Bulletin of the Plant Protection Service Japan

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Research Journal of Mahatma Phule Agricultural University

Research in the Life Sciences

Research Progress

Research in Progress, School of Agricultural Sciences, University of Leeds

Research and Publications, University of Birmingham

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Research Report, Canada Department of Agriculture, Research Branch

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Subtropicheskie Kul'tury

Sugar y Azúcar Sugar Bulletin

Sugar Journal

Sugar News

Sugarcane Pathologists Newsletter

Summary Report for the Tree Nursery, Indian Head, Saskatchewan

Surinaamse Landbouw

Swedish Journal of Agricultural Research

Szőlő-és Gyümölcstermesztés

Taiwan Agriculture Quarterly

Taiwania

Tasmanian Journal of Agriculture

Taxon

Tea in East Africa

Tea Journal of Bangladesh

Tea Quarterly

Technical Bulletin, Faculty of Agriculture, Kagawa University

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Technical Report, Tea Research Institute of Ceylon

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Versuchsergebnisse, Höhere Bundeslehr- und Versuchsanstalt für Gartenbau, Wien-Schönbrunn
Vestnik Leningradskogo Universiteta
Vestnik Moskovskogo Universiteta, 6
Vestnik Sel'skokhozyaistvennoi Nauki Kazakhstana
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Victorian Horticulture Digest
Vinodelie i Vinogradarstvo SSSR
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Western Fruit Grower
World Agricultural Production and Trade
World Crops
World Review of Pest Control

Yalova Bahçe Kültürleri Araştırma ve Eğitim Merkezi Dergisi Yearbook of Agriculture Yearbook, American Orchid Society

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Zeitschrift für Pflanzenkrankheiten und Pflanzenschutz
Zemledelie, USSR
Zentralblatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene, II
Zeszyty Naukowe Wyższei Szkoły Rolniczej w Olsztynie, A

Zentralbiati für Bakteriologie, rafasitenkunde, illektioliski. Zeszyty Naukowe Wyższej Szkoły Rolniczej w Olsztynie, A Zierpflanzenbau Zöldségtermesztés Zöldségtermesztési Kutató Intézet Bulletinje

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TECHNICAL COMMUNICATIONS

- T.C. 22 (Revised 2nd Edition). Sand and water culture methods used in the study of plant nutrition, by E.J. Hewitt, March 1966, pp. 547, 146 illustrations, bibl. 1813, £5.00 (\$13.00).
- T.C. 30. Virus diseases of apples and pears, edited by A.F. Posnette, December 1963, pp. 141, including 5 coloured and 30 half-tone plates, ring-binder cover, £1.75 (\$4.60).
- T.C. 30, Suppl. 1. Pear decline and moria, by E. Refatti, September 1967, pp. 8, 1 coloured and 1 half-tone plates, to fit existing ring-binder cover, £0.25 (\$0.70).
- T.C. 30, Suppl. 2, 3, 4, comprising Apple chlorotic leaf spot (supplement), by R. Cropley, pp. 5, 3 half-tone plates, Apple russet wart, by A.F. Posnette and R. Cropley, pp. 4, 3 half-tone plates, and Apple stem grooving, by O.A. de Sequeira and A.F. Posnette, pp. 4, 5 half-tone plates, 1969, to fit ring-binder cover. £0.50 (\$1.30).

These four additional chapters are for inclusion in T.C. 30 mentioned above.

- T.C. 31. Abstract bibliography of fruit breeding and genetics to 1965. Prunus, by R.L. Knight, July 1969, pp. 649, £6.00 (\$15.60).
- T.C. 32. Abstract bibliography of fruit breeding and genetics, 1956-69. Rubus and Ribes, by R.L. Knight, J.H. Parker and E. Keep, February 1972, pp. 449, £8.00 (\$20.80).
- T.C. 33, Annotated bibliography on mist propagation of cuttings, by Jill E.K. Cox, January 1974, pp.73, £4.00 (\$10.40)

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